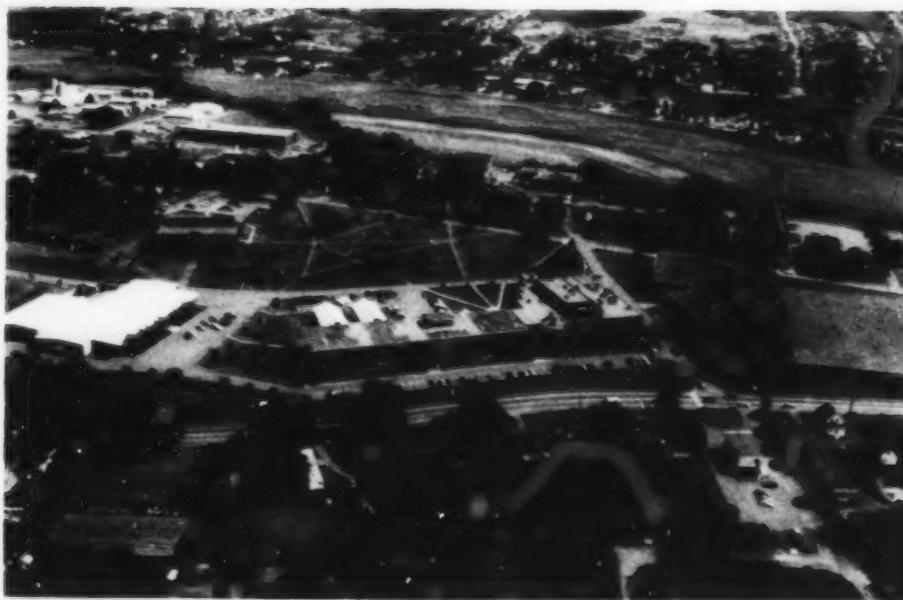

Report of the Principal

1990-1991



**Nova Scotia
Agricultural
College**

P.O. Box 550
Truro, N.S.
B2N 5E3

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Dr. L.E. Haley
Principal

Foreword

In 1990-91, N.S.A.C. experienced a very significant increase in enrollment which followed several years of minor declines. The increase for 1990-91 was 17% over the previous year and based on a further increase of 50% in first year applications for 1991-92 it appears that the College will easily meet its objective of 750 students by 1992-93.

We began a new recruitment program in 1989-90 which would account for some of the increase, but there are probably a number of causes. A general comment of faculty was that the quality of student had also increased and this was indicated by the increased number of Nova Scotia Department of Agriculture and Marketing scholarships. This suggests that the N.S.D.A.M. Scholarship Program is key to maintaining a high quality student body.

The first students to complete the Animal Health Technology Program graduated in May, 1991. The evidence from potential employers suggests that they were very well prepared Animal Health Technologists. Students were admitted to the first year of the new Food Laboratory Technology program in September, 1990. A curriculum in the B.Sc.(Agr.) program resulted in the addition of a new Agribiology: Environmental Biology option being established.

There was also a revitalization of student life on campus, concomitant with a 44% increase in residence occupancy. The success of the new residence program is best illustrated by the fact that student damage to residences declined from over \$18,000 to less than \$3,500.

College Royal was moved from October to its former time in March with greatly renewed interest and participation by students and faculty. College Royal stressed student achievement and included student research project posters and other displays.

The N.S.A.C. team of four students won the grand prize at the Ag-Challenge Competition in Saskatoon in June, 1991. The research papers and presentations based on the student's final year projects were given the top four placings at the Competition.

Faculty attracted over two and a quarter million dollars in research funds making N.S.A.C. the third most active research university in Nova Scotia. The size of the grants are increasing but also the diversity. For example, the Social Sciences and Humanities Research Council awarded a grant to the College to study applied ethics in agriculture and a contract to study dairy cow nutrition was received from the Agimoto Company, Japan.

International Development programs expanded during the year. A partnership's CIDA project between N.S.A.C. and a Colombian University was judged number one of the 119 submissions from all universities in Canada. The number of interested students studying at the College continues to rise.

More detailed information on the College's activities are presented in the following pages. The Principal's Report is intended to serve as a review and reference for all who are interested in the College's mission.

Faculty of Instruction

COLLEGE YEAR 1990-1991

Principal

L.E. Haley, B.S.A.(Toronto),
M.S.A.(Toronto), Ph.D.(California)

Principal Emeritus

Kenneth Cox, B.S.A.(Toronto), M.S.A.(McGill),
L.L.D.(McGill)

Vice-Principal

I.M. Fraser, B.Sc.(Dalhousie), M.A.(Maine)

Dean, Vocational and Technical Education

A.D. Eills, B.Sc.(Agr.)(McGill), M.A. (Acadia)

Registrar

V.L. Saxon, B.Sc.(Dalhousie), B.Ed.(Acadia),
B.Eng.(Nova Scotia Technical College),
M.B.A.(Dalhousie)

Librarian

B.R. Waddell, B.A.(Colorado), M.L.S.(Dalhousie)

Dean of Student Services

R.M. Stevens, B.B.A.(Acadia), M.Ed.(Acadia)

Deans of Residence

J.M. Smith, B.P.Ed.(Dalhousie)

K. Greenwood

R.M. Stevens, B.B.A.(Acadia), M.Ed.(Acadia)

Director of Athletics

K.S. Marchant, B.P.Ed.(New Brunswick),
M.S.(Springfield)

Placement Officer

B.M. Crouse, B.Sc.(Agr.)(Guelph)

Farm Manager

E.G. Maynard, B.S.A.(Toronto), B.Ed.(Mt. Allison),
M.S.A.(Guelph)

Agricultural Engineering

J.D. Cunningham, B.S.A.(Toronto), B.E.(Nova Scotia
Technical College), M.A.Sc.(Technical University of
Nova Scotia) - Associate Professor and Head

James Adams, B.Sc.(Strathclyde), M.Sc.(Reading)
- Associate Professor

J.F. Adsett, B.Sc.(Agr.)(McGill), M.Sc.E.(U.N.B.)
- Assistant Professor

D.A. Allen, B.Sc.(Eng.)(Guelph),
M.Sc.(Agr.Eng.)(Purdue) - Associate Professor

J.P. Blanchard, B.Sc.(St. Mary's), B.Eng., M.A.Sc.,
Ph.D.(Technical University of Nova Scotia)
- Assistant Professor

P.L. Havard, B.Sc.(Agr.Eng.)(McGill),
M.Sc.(Agr.Eng.)(McGill) - Associate Professor

S.A. Madani, B.Sc.(Pahlavi), M.Sc.(British Columbia),
Ph.D. (Washington) - Associate Professor

M.N. Rifai, M.Sc.(Nitra), Ph.D.(Nitra)
- Associate Professor

K.J. Sibley, B.Sc.(Agr.Eng.)(McGill),
M.Sc.(Agr.Eng.)(McGill) - Assistant Professor

Animal Science

D.C. Crober, B.Sc.(Agr.)(McGill), M.Sc.(McGill),
Ph.D.(British Columbia) - Professor and Head

P.Y. Hamilton, B.Sc.(Agr.)(McGill), M.Sc.(Maine)
- Professor Emeritus

D.M. Anderson, B.S.A.(Manitoba), M.Sc.(Manitoba),
Ph.D.(Saskatchewan) - Professor

L.M. Cock, B.Sc.(Agr.)(McGill), M.S.(Wisconsin),
Ph.D.(Maine) - Professor

A.H. Farid, B.Sc.(Shiraz), M.Sc.(Shiraz),
Ph.D.(Alberta) - Associate Professor

N.L. Firth, B.Sc.(Edinburgh), M.S.(Purdue),
Ph.D.(Cornell) - Associate Professor

A.H. Fredeen, B.S.A.(Saskatchewan), M.Sc.(Guelph),
Ph.D.(California) - Associate Professor

A.W.L. Hawley, B.Sc.(Queens), M.Sc.(Manitoba),
Ph.D.(Saskatchewan) - Associate Professor

A. Lirette, B.Sc., S.(Medicine)(Laval), B.Sc.A.(Laval),
M.Sc.(Laval), Ph.D.(Alberta) - Associate Professor

E.G. Maynard, B.S.A.(Toronto), B.Ed.(Mt. Allison),
M.S.A.(Guelph) - Farm Manager

D.L. Patterson, B.Sc.(Alberta), M.Sc.(Guelph),
Ph.D.(Guelph) - Associate Professor

W.B. Ramsay, D.V.M.(Guelph)
- Associate Professor

T. Semple, D.V.M. - Sessional Lecturer

T. Tennesen, B.A.(Alberta), B.Sc.(Alberta),
M.Sc.(Alberta), Ph.D.(Alberta) - Associate Professor

Biology

L.J. Eaton, B.Sc.(Acadia), M.Sc.(Dalhousie),
Ph.D.(Dalhousie) - Professor and Head

A.E. Roland, B.A.(Acadia), M.A.(Toronto),
Ph.D.(Wisconsin), D.Sc.(Acadia), D.Sc.(Dalhousie),
F.A.I.C. - Professor Emeritus

L.E. Crosby, B.Sc.(Acadia), M.Sc.(Acadia)
- Associate Professor

A.B. Gray, B.Sc.(Bishops), M.Sc.(McGill),
Ph.D.(McGill) - Associate Professor

L.E. Haley, B.S.A.(Toronto), M.S.A.(Toronto),
Ph.D.(California) - Principal and Professor

J.-P.R. Le Blanc, B.A.(Montreal), B.Sc.(Quebec),
Ph.D.(McGill) - Professor

V.O. Nams, B.Sc.(Toronto), M.Sc.(Alberta),
Ph.D.(Victoria) - Assistant Professor

A.R. Olson, B.A.(Augustana), M.Sc.(Wisconsin),
Ph.D.(Alberta) - Professor

M.G. Sampson, B.Sc.(Dalhousie), B.Sc.(Agr.)(McGill),
M.Sc.(McGill) - Assistant Professor

R. Singh, B.Sc.(Agr.)(Agra Univ.),
M.Sc.(Agr.)(Agra Univ.), Ph.D.(N.Dakota)
- Adjunct Professor

G.W. Stratton, B.Sc.(Agr.)(Guelph), M.Sc.(Guelph),
Ph.D.(Guelph) - Professor

Chemistry-Soils

H.M. MacConnell, B.Sc.(Agr.)(McGill), M.Sc.(McGill)
- Associate Professor and Head

W.M. Langille, B.Sc.(Acadia), M.Sc.(McGill)
- Professor Emeritus

G.R. Brewster, B.A. (Western Ont.),
M.Sc.(Western Ont.), Ph.D.(Western Ont.)
- Associate Professor

N.L. Crowe, B.Sc.(Agr.)(McGill), M.Sc.(McGill),
Ph.D.(Guelph) - Assistant Professor

J.E. Hawley, B.Sc.(Agr.)(McGill)
- Assistant Professor

J. Hoyle, B.A.(Univ. York), B.A. (Open Univ.),
M.Sc.(Leeds), Ph.D.(Dalhousie)
- Associate Professor

J.C. Miller, B.Sc.(Agr.)(Guelph), M.Sc.(Alberta)
- Associate Professor

A.S. Payne, B.Sc.(Agr.)(McGill), M.Sc.(McGill)
- Associate Professor

A.R. Robinson, B.Sc.(Agr.)(McGill), M.Sc.(McGill),
Ph.D.(McGill) - Professor

P.R. Warman, B.Sc.(Agr.)(Rutgers), M.Sc.(Guelph),
Ph.D.(Guelph) - Professor

Economics and Business Management

J.C. Taft, B.Sc.(Agr.)(McGill), M.Sc.(New Hampshire)
- Associate Professor and Head

D.E. Arnfast, B.B.A.(St. Francis Xavier)
- Assistant Professor

J.M. Bowker, B.A.(Bates), Ph.D.(Texas A & M)
- Assistant Professor

A.D. Ells, B.Sc.(Agr.)(McGill), M.A.(Acadia)
- Associate Professor and Dean, Vocational and
Technical Education

K.G. Grant, B.A. (Acadia), M.A.(Western Ontario),
Ph.D.(Western Ontario) - Associate Professor

P. Lederman, B.A.(Queens), M.A.(Dalhousie),
LL.B.(Queens), BCL(Oxford) - Sessional Lecturer

S.G. Russell, B.Sc.(Agr.Ec.)(Guelph), M.B.A.
(St. Mary's) - Assistant Professor

S.J.B. Stackhouse, B.Sc.(Agr.Ec.)(Guelph),
M.Sc.(Guelph) - Associate Professor

Humanities

P.M. Sanger, B.A.(Melbourne), B.Ed.(Acadia),
M.A.(Victoria) - Associate Professor and Head

Parker Cox, B.A.(Acadia), M.A.(Toronto)
- Professor Emeritus

B.M. Crouse, B.Sc.(Agr.)(Guelph)
- Placement Officer

K.S. Marchant, B.P.Ed.(New Brunswick),
M.S.(Springfield) - Associate Professor

L.L. Sanderson, B.Sc.(Agr.)(Guelph), M.Sc.(Guelph)
- Associate Professor

J.M. Smith, B.P.Ed.(Dalhousie) - Assistant Professor

Mathematics and Physics

S.G. Smith, B.Sc.(Mt. Allison), M.Sc.(Windsor)
- Associate Professor and Head

D.G. Bishop, B.Eng.(Agr.)(Technical University of
Nova Scotia), M.Eng.(Agr.)(Technical University of
Nova Scotia) - Associate Professor

R.G. Farmer, B.B.A.(U.C.C.B.), M.B.A.(St. Mary's)
- Assistant Professor

I.M. Fraser, B.Sc.(Dalhousie), M.A.(Maine)
- Associate Professor and Vice-Principal

C.T. Madigan, B.Sc.(Windsor), M.Sc.(Windsor)
- Associate Professor

G.J. Pearson, B.Sc.(Queens), M.Sc.(Queens),
B.Ed.(Dalhousie) - Assistant Professor

V.L. Saxon, B.Sc.(Dalhousie), B.Ed.(Acadia),
B.Eng.(Nova Scotia Technical College),
M.B.A.(Dalhousie) - Associate Professor and
Registrar

Plant Science

- C.D. Caldwell, B.Sc.(Mt. Allison), M.Sc.(Dalhousie),
Ph.D. (East Anglia) - Professor and Head
- J.E. Shuh, B.S.A.(Toronto), M.Sc.(McGill)
- Professor Emeritus
- S.K. Asiedu, B.Sc.(Agr.), M.Sc., Ph.D.(McGill)
- Assistant Professor
- G.N. Atlin, B.Sc.(Agr.)(Guelph), M.S.(Guelph),
Ph.D.(Iowa) - Assistant Professor
- J.S. Bubar, B.Sc.(Agr.)(McGill), M.S.(Pennsylvania
State), Ph.D.(McGill) - Professor
- T.M. Choo, B.Sc.(Nat.Taiwan Univ.), Ph.D.(McGill)
- Adjunct Professor
- W.K. Coleman, B.A., Ph.D.(Western Ontario)
- Adjunct Professor
- R.W. Daniels, B.Sc.(Agr.)(McGill), M.S.(Michigan
State), Ph.D.(Penn. State) - Professor
- C.D. Goodwin, B.Sc.(Mt. St. Vincent), M.Sc.(Guelph)
- Lecturer
- T.H. Haliburton, B.Sc.(Agr.)(McGill), M.S.(Cornell)
- Associate Professor
- W.J. Higgins, B.Sc.(Mt. Allison), M.S. in Ed.(Niagara)
- Associate Professor
- H.-Y. Ju, B.Sc.(Agronomy)(Seoul), M.Sc.(McGill),
Ph.D.(McGill) - Professor
- L.R. Mapplebeck, B.Sc.(Guelph), M.Sc.(Guelph)
- Associate Professor
- R.C. Martin, B.A.(Carleton), M.Sc.(Carleton),
Ph.D.(McGill) - Assistant Professor
- T.M. Mullin, B.Sc., M.Sc.(Univ. of New Brunswick)
- Adjunct Professor
- J. Nowak, M.Sc.(Olsztyn), Ph.D.(Olsztyn),
Ph.D.Habil (Olsztyn) - Professor
- Y. Papadopoulos, B.Sc.(Guelph), M.Sc.(Guelph),
Ph.D.(Guelph) - Adjunct Professor
- R.K. Prange, B.Sc.(Acadia), M.Sc.(British Columbia),
Ph.D.(Guelph) - Adjunct Professor
- R.G. Robertson, B.Sc.(For.)(Aberdeen)
- Sessional Lecturer from N.S. Dept. of Lands and
Forests

NEW FACULTY APPOINTMENTS JUNE 1, 1990 to JULY 30, 1991

Dr. Hossain Farid was appointed as Associate
Professor in the Department of Animal Science on

June 1, 1990. He specialized in animal breeding and
genetics during his doctoral program which was
completed at the University of Alberta. His experi-
ence includes managing the Lou Agro-Industrial
Complex in Hamadan, Iran, and lecturing at the
University of Shiraz. More recently he was an
assistant professor at the University of Manitoba, and
as the Livestock Geneticist for the government of
Newfoundland and Labrador. At N.S.A.C. his
teaching and research will include special attention
to sheep production systems.

Robert M. Stevens was appointed Dean of Student
Services effective July 2, 1990. This role includes a
wide range of student services including residences,
food service, student placement, and counselling. His
academic background includes undergraduate studies
in Business Administration and Marketing, as well as
graduate studies at Acadia University in their Master
of Education program, where he specialized in
counselling. Before coming to N.S.A.C. he was
Director of Housing and Food Service at Acadia
University.

Carol Goodwin was appointed as Lecturer to the
Department of Plant Science on July 3, 1990. She will
be concentrating her teaching and related scholarly
activity on Landscape Horticulture topics such as
arboriculture and landscape horticulture. Her aca-
demic background includes graduation with honours
from N.S.A.C.'s Ornamental Horticulture Technology
program, a B.Sc. from Mount Saint Vincent University
and a M.Sc. in Horticulture from the University of
Guelph. Work experiences include arboretum
development and grounds development at Mount
Saint Vincent University where her work was well
recognized for an international award.

Dr. Ralph Martin was appointed as Assistant
Professor in the Department of Plant Science on July
3, 1990. During his M.Sc. studies at Carleton
University he developed a strong interest in plant
ecology. At Macdonald College during his Ph.D. he
emphasized plant competition studies and methods of
nitrogen transfer from legume and nonlegume crops.
His research interest continue to include
intercropping methods. At N.S.A.C. his teaching and
other scholarly activity will emphasize his role as a
forage agronomist.

Dr. Vilis Nams was appointed as Assistant Professor
in the Department of Biology on August 20, 1990.
He will be teaching ecology courses in both the
degree and technology programs. He majored in
zoology in his undergraduate studies at the University

of Toronto. His M.Sc. program was centered on wildlife research in the north and was based at the University of Alberta. Ph.D. studies were completed at the University of Victoria. He brings to N.S.A.C. a wide experience in computer modelling, statistical analysis and telemetry.

Dr. John Blanchard was appointed as Assistant Professor in the Department of Agricultural Engineering on November 14, 1990. As a food engineer he will give leadership in the offering of courses in food engineering and energy use. During his recent doctoral program at TUNS his research was centered on the development of a computerized controller system for a food curing smoke generator. He majored in chemistry in his B.Sc. degree from Saint Mary's, and agricultural engineering in his undergraduate degree in Engineering.

RETIREMENTS FROM FACULTY

James Adams, Associate Professor and Head of the Department of Agricultural Engineering retired on July 31, 1990. He joined faculty in 1969. From 1976 to 1989, he was head of the department.

Dr. John Bubar, Professor in the Department of Plant Science, retired on July 31, 1991. He had been a member of faculty since 1967, and was the department head for seventeen years.

NEW DEPARTMENT HEADS

Dr. Robin Robinson, was appointed Head, Department of Chemistry and Soil Science, effective July 1, 1991. He first joined the faculty in 1975, as a biochemist. He succeeds Professor Henry MacConnell who was Department Head for the previous ten years.

Professor Carl Madigan, was appointed Head of the Department of Math and Physics on July 1, 1991, replacing Professor Stuart Smith who had served in that role for fifteen years. Professor Madigan joined the N.S.A.C. faculty in 1977, and has been teaching in the fields of calculus, linear algebra, and statistics.

Courses Offered

Degree

A complete four-year program leading to a degree in Agricultural Sciences (B.Sc.(Agr.)) is offered with a choice of the following options:

Agricultural Chemistry
Agricultural Economics
Agricultural Mechanization
Agriobiology: Environmental Biology
Agriobiology: Plant Protection
Animal Science
Plant Science
Soil Science

Most students complete their degree at N.S.A.C. but they may still pursue other options without interruption by transferring to the B.Sc.(Agr.) program at Macdonald College of McGill University, the University of Guelph, the University of Maine or the Faculty of Agriculture at another university.

Students who successfully complete the three years of the Agricultural Engineering diploma program can proceed to Macdonald College of McGill University or the University of Guelph to complete their program of study. A two-year engineering diploma program is built into the 3-year program for students proceeding to any specialty at the Technical University of Nova Scotia.

Students who wish to take the two-year Pre-Veterinary program to meet admission requirements of the Atlantic Veterinary College at the University of Prince Edward Island will be counselled in their selection of courses regarding blending of the Pre-Vet program with the options of the B.Sc.(Agr.) program.

Technician

The following two-year programs of study are offered:

Agricultural Business
Agricultural Engineering
Animal Science
Farm Equipment
Plant Science

Technology

The following two-year programs of study are offered:

Chemistry Laboratory Technology
Landscape Horticulture Technology

The following two-year programs are offered only to students who have successfully completed one year of a specified Technician Course (or equivalent):

Agricultural Engin. Technology
Farming Technology

Three-year programs are offered in:

Animal Health Technology
Biology Technology
Food Laboratory Technology

Agricultural Technology is a one-year program, tailored to meet the needs of the student. Only Technician graduates are eligible to apply for this course.



The Registration Staff for September 1990.

Registration

1990-91

1st Year B.Sc.(Agr.)	113
2nd Year B.Sc.(Agr.)	95
3rd Year B.Sc.(Agr.)	61
4th Year B.Sc.(Agr.)	<u>50</u>

Sub-Total B.Sc.(Agr.) 319

1st Year Engineering	15
2nd Year Engineering	<u>10</u>

Sub-Total Engineering 25

1st Year Technicians	54
2nd Year Technicians	<u>45</u>

Sub-Total Technicians 99

1st Year Technology	58
2nd Year Technology	<u>37</u>

Sub-Total Technology 95

Total Full Time Students 538

Special Students (Part-time) 47

Special Students (Full-time) 8

TOTAL ALL STUDENTS 593

January, 1991

Pre-Tech Students 18

Autumn Assembly

OCTOBER 24, 1990

Autumn Assembly, which is held annually to present awards and scholarships to students, took place on October 24, 1990. The assembly address was given by G.R. Winham, B.A., Dip. in Int. Law, Ph.D., Professor, Political Science, Dalhousie University.

General Scholarships

Canada Scholarship (First Year), \$2000

John Duynisveld, R.R. #3, Wallace, N.S.
L. Elaine Gillis, Inverness, N.S.
Kelly Hodder, 1944 Acadia Ave., Westville, N.S.
Doreen Huybers, R.R. #3, Stewiacke, N.S.
Terence MacIntyre, Bras d'Or, N.S.
Rhonda MacLean, R.R. #3, Scotsburn, N.S.
Lisa Scott, R.R. #1, Saltsprings, N.S.
Kevin Shiell, R.R. #3, Woodstock, N.B.
Cornelia Visser, R.R. #2, Crapaud, P.E.I.
Stephen Welling, R.R. #1, Scoudouc, N.B.

Canada Scholarship (Second Year), \$2000

Jeffery DeHaan, R.R. #2, Cornwall, P.E.I.
Kimberly Keeping, 25 Brook St., N. Sydney, N.S.
Laura Rogers, Doyles, Nfld.

Canada Scholarship (Third Year), \$2000

Kimberley Barteaux, R.R. #1, Annapolis Royal, N.S.
Suzanne Blatt, R.R. #1, Kentville, N.S.
Patricia Ryan, Port-au-Port, Nfld.

The Nova Scotia Agricultural College Alumni Association, \$1000

Christopher Henderson, R.R. #9, Moncton, N.B.
Dianne McCarthy, 114 Pine St., Pictou, N.S.

The Atlantic Fertilizer Institute Scholarship, \$1000

Margaret Drake, 57 Newland Cres., Charlottetown, P.E.I.

Canada Packers Scholarship, \$1000

Mary Ann Oulton, R.R. #1, Windsor, N.S.

The Nova Scotia Institute of Agriologists Scholarship, \$1000

Rhonda MacLean, R.R. #3, Scotsburn, N.S.

Co-op Atlantic Scholarship, \$1000

Suzanne Blatt, R.R. #1, Kentville, N.S.
Angela Brown, Lethbridge, Nfld.

Nova Scotia Milk Producers Scholarship, \$1000

Arlene Ellis, R.R. #2, Canning, N.S.

New Brunswick Institute of Agriologists Scholarship, \$1000

Jessica Harvey, R.R. #1, Petitcodiac, N.B.

Newfoundland Egg Marketing Board Scholarship, \$1000

Patricia Ryan, Port-au-Port, Nfld.

Canadian National Exhibition Scholarship, \$1000

Teressa Campbell, R.R. #1, Upper Rawdon, N.S.
Jane MacLaurin, Miscouche, P.E.I.

Chicken Producers Association of Nova Scotia, \$1000

David Hopkins, Port Williams, N.S.

Angus & Tena MacLellan Memorial Scholarship, \$1000

Susan Lomond, Steady Brook, Nfld.

Masterfeeds Scholarship, \$1000

Rhonda Rumbolt, R.R. #2, Deer Lake, Nfld.

Hants County Exhibition Scholarship, \$1000

Richard Bond, R.R. #1, Upper Rawdon, N.S.

Woodside Memorial Scholarship, \$1000

Bruce Andrews, R.R. #2, Hunter River, P.E.I.

Cornelia Visser, R.R. #2, Crapaud, P.E.I.

The Petro-Canada Youth Leadership Award, \$1000

Douglas Koch, Maple Grove Rd., Stanley, N.B.

Lisa Scott, R.R. #1, Saltsprings, N.S.

F.W. Walsh Memorial Scholarship, \$800

Coralee Clark, R.R. #2, Havelock, N.B.

Hank DeBoer Memorial Scholarship, \$500

Nikki Whidden, R.R. #3, Truro, N.S.

Atlantic Farm Mechanization Show Scholarship, \$500

Udo Herygers, R.R. #1, Lawrencetown, N.S.

Mark Urquhart, R.R. #2, New Glasgow, N.S.

The Atlantic Fertilizer Institute Scholarship, \$500

Brian Newcombe, 63 Belcher St., Port Williams, N.S.

The Ernest L. Eaton Memorial Scholarship, \$500

Arlene Ellis, R.R. #2, Canning, N.S.

David Pierik, R.R. #3, Canning, N.S.

Women's Institutes of Nova Scotia Scholarship, \$500

Sarah Noble, 47 Hazelholme Dr., Halifax, N.S.

Women's Institutes of Nova Scotia Family

Scholarship, \$500

Jamie van den Hoogen, R.R. #2, Mabou, N.S.

Newfoundland Dairy Marketing Board Scholarship, \$500

Derek Balsom, R.R. #2, Cormack, Nfld.

Amy McKenzie, Port-au-Port, Nfld.

New Brunswick Poultry Council Scholarship, \$500

Susan Appt, R.R. #1, Westfield, N.B.

The G.E. O'Brien Memorial Award, \$500

Terry McKay, R.R. #2, Truro, N.S.

The Vice-Principal's Scholarship, \$500

Gerard Richard, R.R. #2, Miscouche, P.E.I.

Col. Charles H. Coll Memorial Scholarship, \$500

Heidi Wulfrat, 206 Castle Rd., Beaconsfield, Quebec

H.A.L. McLaughlin Memorial Scholarship, \$500

Peter McCabe, 36 Angus Dr., Charlottetown, P.E.I.

Hillbreeze Acres Scholarship, \$500

Wade Brockway, 41 Kingston Cres., Dartmouth, N.S.

Benny Duivenvoorden Memorial Scholarship, \$500

Rhonda Hamilton, R.R. #1, Scoudouc, N.B.

The Canadian Feed Industry Association

(Atlantic Division) Scholarship, \$400

Sarah Noble, 47 Hazelholme Dr., Halifax, N.S.

Cobequid Dog Club Scholarship, \$400
 Anne Drew, Mosher Island, LaHave, N.S.
 N.S. Federation of Agriculture Scholarships, \$300
 Sharon MacLean, River John, N.S.
 Lisa Brushett, Truro, N.S.
 Ira L. Rhodenizer Memorial Scholarship, \$300
 Teresa Campbell, R.R. #1, Upper Rawdon, N.S.
 The Donald E. Clark Memorial Scholarship, \$300
 Christopher Hines, R.R. #1, Debert, N.S.
 Douglas Obare, Kisumu, Kenya
 Atlantic Provinces Hatchery Federation Scholarship, \$300
 Anita Rawding, Aylesford, N.S.
 A.B. Banks Memorial Scholarship, \$250
 Laura Rogers, Doyles, Nfld.
 Canadian Society for Horticultural Science Award, \$250
 Peter McCabe, 36 Angus Dr., Charlottetown, P.E.I.
 Atlantic Provinces Hatchery Federation Scholarship, \$200
 Yvonne van Hattem, R.R. #2, Berwick, N.S.
 The A.W. Mackenzie Memorial Scholarship, \$150
 Teresa Campbell, R.R. #1, Upper Rawdon, N.S.
 The Wilfred Cyr Memorial Scholarship, \$200
 Serge Gaudet, R.R. #1, St. Joseph, N.B.
 Bruce Trenholm/Atlantic '86 Scholarship, \$500
 Yvonne van Hattem, R.R. #2, Berwick, N.S.
 The Dorothy Creelman Cox Scholarship
 Teresa Campbell, R.R. #1, Upper Rawdon, N.S.
 The Dr. Kenneth Cox Scholarship
 Joyce Njoba, Nairobi, Kenya

Provincial Scholarships

NOVA SCOTIA

\$2000 Terence MacIntyre, Bras d'Or
 Rhonda MacLean, R.R. #3, Scotsburn
 Lisa A. Scott, R.R. #1, Saltsprings
 \$1500 Kimberley Barteaux, R.R. #1, Annapolis Royal
 Anna Belliveau, Church Point
 Suzanne Blatt, R.R. #1, Kentville
 Katherine Boyd, Barrington Passage
 Phillip Brenneman, Upper Stewiacke
 Andrea Crowe, R.R. #1, Southampton
 John Duynisveld, R.R. #3, Wallace
 Arlene Ellis, R.R. #2, Canning
 Ewan Ferguson, R.R. #1, Wallace
 L. Elaine Gillis, Inverness
 Ian Gilroy, Springhill
 Doris Grant, 586 George St., New Waterford
 Kelly Hodder, 1944 Acadia Ave., Westville
 Doreen Huybers, R.R. #2, Stewiacke
 Kimberly Keeping, 25 Brook St., N. Sydney
 Sandra Kennedy, R.R. #2, Upper Stewiacke
 Craig Landsburg, 18 Virginia Ave., Truro
 Sharon MacLean, River John
 Michelle McGee, R.R. #1, Thorburn
 Susan Millward, 114 Buckingham Dr., Sydney

Kenn Munro, 36 Parker St., Truro
 Sarah Noble, 47 Hazelholme Dr., Halifax
 Robyne Page, Digby
 David John Pierik, R.R. #3, Canning
 Kelly Reeves, Cambridge Station
 Wanda Robbins, Smith's Cove
 Craig Sarty, R.R. #3, Bridgewater
 Roy Taylor, 1630 Edward St., Halifax
 Andrew Weatherbee, 360 Truro Heights
 Rd., Truro
 Shelly Woodworth, R.R. #1, South Berwick
 Blaine Young, R.R. #2, Hill's Rd.,
 Marion Bridge
 Jeffery Zwicker, R.R. #2, Shubenacadie
 Rene Boertjes, R.R. #1, Debert
 Steven Chiasson, 4 Mill Ct., Bedford
 Gregory Cosman, 7 Butler Dr., Truro
 Catherine Creighton, R.R. #2, Windsor
 junction
 Brian Faber, R.R. #1, Debert
 Gregory Gerrits, R.R. #2, Centreville
 Hugh MacDonald, Thorburn
 Pamela MacKay, 188 Lacewood Dr., Halifax
 Judy MacMillan, R.R. #1, Brookfield
 Karin Robertson, Grand Pre
 Robert Theriault, Arichat
 Steven Daling, R.R. #1, Scotsburn
 Rufus Ellis, Canning
 Lisa Johnson, West L'Ardoise
 Deanna MacLeod, R.R. #2, Porter's Lake
 Dianne McCarthy, 114 Pine St., Pictou
 Donna Murphy, R.R. #3, Truro
 Brian Newcombe, 63 Belcher St., Port
 Williams
 Christopher Peebles, Stellarton
 Christopher Poole, R.R. #2, Middle
 Musquodoboit
 Karen Schrader, 114 Common St., Liverpool
 Gordon Smith, 25 St. Margaret's Bay Rd.,
 Halifax
 Cecile Stewart, Milford Station

NEWFOUNDLAND

\$700 Penelope Gavin, Coachman's Cove
 Amy McKenzie, Port-au-Port
 Todd Payne, R.R. #2, Deer Lake

Bursaries

Farm Credit Corporation Bursary, \$1000
 Rhonda Rumbolt, R.R. #2, Deer Lake, Nfld.
 Beaver Foods Limited Bursaries, \$500
 Kimberley Thomson-Kerr, 37 King's Bridge Rd.,
 St. John's, Nfld.
 John Schenkels, Red Bank, N.B.

Nova Scotia Veterinary Medical Association Bursaries, \$500

Darlene MacNeil, R.R. #1, St. Peter's, N.S.
Karen Sheehan, R.R. #4, Souris, P.E.I.
Bravo 500 Technology Bursary, \$500
Brian Newcombe, 63 Belcher St., Port Williams, N.S.
David W. Brown, \$500
Serge Gaudet, R.R. #1, St. Joseph, N.B.
Brian Newcombe, 63 Belcher St., Port Williams, N.S.
Co-op Atlantic Bursaries, \$500
Christopher Peebles, Stellarton
George Van Campen, R.R. #5, Truro
Raymond Webber Memorial Award, \$300
Peter McCabe, 36 Angus Dr., Charlottetown, P.E.I.
Dr. Robert G. Rix Family Farm Bursary, \$300
Momodou Jallow, The Gambia
Farm Focus Bursary, \$200
Serge Gaudet, R.R. #1, St. Joseph, N.B.
The Edith Main Memorial Bursary, \$100
Emma Raghavan, Arichat, N.S.
Kings County Federation of Agriculture Bursary, \$500
Jeri Dearman, R.R. #1, Port Williams, N.S.

PRIZES

N.S. Veterinary Medical Association Prize, \$200
Ben Vos, R.R. #1, Hunter River, P.E.I.
G.G. Smeltzer Award, \$200
Jane Schule, R.R. #1, Linacy Rd., New Glasgow, N.S.
The Roy H. Stevenson Prize in Mathematics & Physics, \$250
Laura Rogers, Doyles, Nfld.
The Lorne C. Callbeck Prize, \$50
Arlene Ellis, R.R. #2, Canning, N.S.
The H.J. Fraser Memorial Prize in English
Andrew MacLeod, R.R. #3, Fredericton, N.B.
Canadian Society of Animal Science Prize
Susan Lomond, Steady Brook, Nfld.



Alumni President, John Eaton presented the alumni scholarships at Autumn Assembly. The winners were, Diane McCarthy of Pictou and Chris Henderson of Moncton. Each scholarship was \$500.

Principal's List

On February 26, 1991, Dr. L.E. Haley entertained 53 students of the Nova Scotia Agricultural College at a dinner given in their honour at the Glengarry Convention Centre, Truro, N.S. The Principal's List honours those students who have achieved academic excellence at the College.

The guest speaker was Mr. Ralph Morehouse, Deputy Minister, Nova Scotia Department of Agriculture and Marketing.

Each student was presented with a plaque in recognition of his/her achievement.

Mical Adhiambo, Nairobi, Kenya
Suzanne Blatt, Kentville, N.S.
Lisa Brushett, Dartmouth, N.S.
Holland Cahill, Tignish, P.E.I.
Heather Caseley-Termeer, Moncton, N.B.
Dawn Daling, Scotsburn, N.S.
Jeffrey DeHaan, Cornwall, P.E.I.
Kelly DeLong, Shubenacadie, N.S.
John Duynisveld, Wallace, N.S.
Arlene Ellis, Canning, N.S.
Rufus Ellis, Canning, N.S.
Brian Faber, Debert, N.S.
Cynthia Fenn, Lower Sackville, N.S.
Scott Frazee, New Glasgow, N.S.
Martin Higgins, Middle Musquodoboit, N.S.
Kelly Hodder, Westville, N.S.
Tracey Johnston, Hampton, N.B.
Abdullahinur Kassim, Wajir, Kenya
Kimberly Keeping, North Sydney, N.S.
Lorraine Kefositse, Mahalapye, Botswana
Geoffrey LeBlanc, Fredericton, N.B.
Susan Lomond, Steady Brook, Nfld.
Alannah MacDonald, Fredericton, N.B.
Terence MacIntyre, Bras d'Or, N.S.
Andrew Mack, Economy, N.S.
Deanna MacLeod, Porter's Lake, N.S.
Sharon MacLean, River John, N.S.
Ronda MacLean, Scotsburn, N.S.
Andrew Mazerolle, Fredericton, N.B.
Peter McCabe, Charlottetown, P.E.I.
Amy McKenzie, Port-au-Port, Nfld.
Kenn Munro, Truro, N.S.
Brian Newcombe, Port Williams, N.S.

Sarah Noble, Halifax, N.S.
 David Pierik, Canning, N.S.
 Frederick Pike, Eastport, Nfld.
 Vijayakumari Pillay, Kentville, N.S.
 Karin Robertson, Grand Pre, N.S.
 Laura Rogers, Doyles, Nfld.
 Lisa Scott, Saltsprings, N.S.
 Gordon Smith, Halifax, N.S.
 Nancy Smith, Fredericton, N.B.
 Roy Taylor, Halifax, N.S.
 Robert Theriault, Arichat, N.S.
 Janine Thorne, New Harbour, T.G., Nfld.
 Nadine Trudeau, Dartmouth, N.S.
 Mark Urquhart, New Glasgow, N.S.
 Cornelia Visser, Crapaud, P.E.I.
 Andrew Weatherbee, Truro, N.S.
 Jason Webster, Kensington, P.E.I.
 Stephen Welling, Scoudouc, N.B.
 Denise Whitney, Red Bank, N.B.
 Susan Withers, Truro, N.S.

Special Events

Oktoberfest

A joint staff-student social event called Oktoberfest was held on October 13, in the Jenkins Hall area. A large tent was added to the patio to better present some of the music, food and fun events. Some sports activities were organized as well.

Concert by Delahunt and Shulman

A concert of piano and cello music was sponsored on December 6, 1990, in Alumni Theatre. These two artists have played concerts in many countries and presented one the previous night at the Smithsonian in Washington, USA.

Mr. Delahunt, a native of Wolfville, is a pianist from the Vienna Academy of Music. He had previously presented a concert at NSAC in October, 1989, to help celebrate the installation of his uncle as the College's ninth Principal.

Andrew Shulman is cellist of the Britten Quartet and is Professor of Cello at the Royal College of Music in London, England. He is also a Visiting Professor at the New England Conservatory in Boston.

International Night

The annual international night was held on February 4. Four hundred people filled Jenkins Hall where flags, from the seventeen countries represented in the N.S.A.C. student body, decorated the walls. The buffet dinner featured foods representing eleven countries. The entertainment included fashion shows, drama and music. Traditional dances from Kenya, Lesotho, Ethiopia and the Caribbean region were demonstrated by student groups. The Principal presented a message to the gathering.

The evening was sponsored by the N.S.A.C. International Students' Association and Canadian Crossroads International and was supported by the Multicultural Association.

Heritage Week

The College celebrated 86 years of service to agriculture and the Atlantic Region from February 10 to 16, 1991. The focal point of the week was a Founding Day Dinner on a historical theme, on February 14. Displays were organized in several departments and a dining hall display drew attention to the courage and ambition of the first female students to attend the College in 1909, 1913, 1915 and 1918. Contests about the campus and College history were held for both staff and students.

Winter Carnival

"Plough Your Way Through Winter Carnival Week" was the theme this year for Winter Carnival, which was held from February 5-10, 1991. The Co-Chairpersons were Kim Skeffington-Didychuk, Deanne Simms and Ann Marie Gregory.

College Royal '90

Fifty years of College Royal programs were celebrated with the four day show that was opened on Wednesday evening, March 6, in the MacMillan Show Centre. Thursday was show day with both livestock and non-livestock competitions. 4-H projects and department displays were set up for the visitors. A variety concert showcasing student talent was held in Alumni Theatre.



At the College Royal Banquet Dr. Andre Lirette, (right) presented two special awards to the Co-Chairs, Jennifer Picketts, Kensington, P.E.I., (left) and Ann Marie Gregory of Harricott, Newfoundland, (centre)

The Friday program included displays and research seminars by students and faculty. The events ended on the weekend with intermural competitions, an awards banquet and some social activities.

The student Co-Chairs, Jennifer Picketts and Ann Marie Gregory, worked closely

with the Faculty Liaison Committee Chair, Dr. Andre Lirette.

Concert "Stars of the Strings"

Two concerts of old time musical variety were sponsored by the College in Alumni Theatre on March 17, 1991. These were organized by Cyé Steele and featured Cyé Steele, Joe White, Andy Crossan, and others. The presentations included a review of Don Messer music from 1937 to 1947.

Class of '44 Lecture

Dr. David Pimental from Cornell University presented the "Class of '44 Lecture" in Alumni Theatre on April 9, 1991. He identified several energy concerns and related them to sustainable farming systems.

Arbour Day

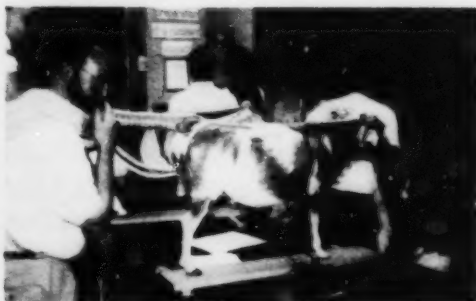
On May 9, Arbour Day was celebrated with the planting of a Scarlet Oak (*Quercus Coccinea*) in memory of the late Ian Neil who was a graduate of the Ornamental Horticulture Technology program in 1978. Staff, graduates and friends were joined by family members for the ceremony.



A Scarlet Oak Tree was planted on the NSAC Campus as part of Arbor Day celebrations on May 9th. This was given by the Alumni Association as a memorial to the late Ian Neil of East Noel, who graduated from the College in 1978. Shown with Peggy and Seward Neil (right) are Jackalyn Murray, representing the class of '78, and Dr. Les Haley, Principal.

Open House

The last Saturday of July was again the annual open house day and Alumni Reunion. This was designed as a family day with events and exhibits to interest all age groups. A hip of beef lunch was featured at noon and attracted over 700 people. Outdoor attractions such as the gardens, the childrens' farm animal display, the international tent and the tea in Alumni Gardens were well attended and the campus wagon tours were busy all day. Most departments offered interactive displays throughout the afternoon and the Alumni Association held a very successful breakfast event in the MacRae Library as well as their annual dinner and meeting in the evening. More than 1,000 visitors came to the open house program.



Interesting detail in the Animal Physiology Lab.



A contest on artifacts from around the world at the International tent.

Seminars

May 11, 1990

N.S. Farm Finance Stories

- Ralph Taylor

May 25, 1990

Genetic Engineering for Fish
Production in the Maritimes

- Dr. Jonathan Wright

June 8, 1990

Meat Beef for Lunch

- Linda MacDonald

June 22, 1990

Animals and their Rights

- Dr. Tarjei Tennesen

July 6, 1990

Potato Production in Northern Africa

- Dr. Sam Asiedu

July 20, 1990

Automating "Soils & Crops"

- Jim Goit

August 3, 1990

Teaching at Gambia College

- John Henry

August 17, 1990

Sustainable Agriculture

- Rod MacRae

May 17, 1991

Using Cs-137 to Access Rates of Soil
Erosion

- Dr. Gordon Brewster

May 31, 1991

Potato Programs South American
Success

- Dr. Sam Asiedu

Convocation

The Convocation Exercises were held on May 3, 1991 at the Athletic Centre. The Convocation address was given by The Hon. Donald W. Cameron, Premier of Nova Scotia. The winners of the Governor-General's Medals were: Susan Renee Lomond, Degree Student and Peter Bernard McCabe, Technical Student. Other awards were presented to Scott Timothy Frazee and Erik R. terBeek, Atlantic Provinces Swine Producers' Awards; Susan Renee Lomond, Ketchum Manufacturing Company Ltd. Prize; Peter Bernard McCabe, K. DeGeus Memorial Prize for Plant Science. The valedictory address was delivered by Ann Marie Gregory.

Bachelor of Science in Agriculture Degrees

Agricultural Chemistry

Shawn David F. Taylor, Wolfville, N.S.

Agricultural Economics

Margaret Muchelule Asatsa - Honours, Kitale, Kenya
Darrin Dana Didychuk, Moncton, N.B.
Helen Carol Gray, Saint John, N.B.
Hugh Findlay MacDonald - Honours, Thorburn, N.S.
James Calvin MacDonald, Greenwood, N.S.
Jayne Marie Greer-Mills, Woodstock, N.B.
Joyce Wambui Njoba - Honours, Nairobi, Kenya
Rebecca Wanjiku Njuguna, Nairobi, Kenya
Christine Oduodi Owondo, Kilgus, Kenya
Alexander Sutherland Patterson, Truro, N.S.

Agricultural Mechanization

Dennis Gary Doherty, Apohaqui, N.B.
Terry Wallace McKay, Truro, N.S.
Gerard Joseph Richard, Miscouche, P.E.I.

Agricultural Soils

Douglas Thane MacDonald, Victoria, P.E.I.
Mary Ann Oulton, Windsor, N.S.

Animal Science

Steven Ronald Alward, Riverside Albert, N.B.
Michelle Sonja Bent, Lawrencetown, N.S.
Heather Caseley-Termeer, Moncton, N.B.
Paula Lee Cunningham, Roseway, N.S.
Scott Timothy Frazee, New Glasgow, N.S.
Ann Marie Gregory, Harricott, Nfld.
Sandra Anita King - Honours, Porters Lake, N.S.
Robert Paul Lister, Harvey Station, N.B.



The academic procession was led by Piper George Macintosh from Jenkins Hall to the Athletic Centre. George is a student at the College.



Convocation at the NSAC was a homecoming day for both the Nova Scotia Premier and the Minister of Agriculture as they graduated from the College 25 years earlier. Among the participants in the ceremony were (left to right) Dr. Howard Clark, President and Vice Chancellor of Dalhousie University, Honorable George Archibald, N.S. Minister of Agriculture and Marketing, The Honorable Donald W. Cameron, Premier of N.S. and Dr. Les Haley, NSAC Principal.

Susan Renee Lomond - High Honours,
Steady Brook, Nfld.

Karen Margaret MacDonald, Hopewell, N.S.
Richard Douglas MacKenzie, Dartmouth, N.S.
Anita Marie Rawding, Aylesford, N.S.
Helen Frances Smith, Sydney, N.S.
Daryl Stephen Whelan, Kelligrows, Nfld.
Denise Allison Whitney, Red Bank, N.B.
Heidi Erika Wulfrat, Beaconsfield, P.Q.

Plant Protection

David William Abbott, Campbell River, B.C.
Stephanie Darlene Bishop, Bridgetown, N.S.
Celia Kathleen Boone, East Bay, N.S.
Kimberly Ann Smillington-Didychuk, Pasadena, Nfld.

Plant Science

Mical Adhiambo - Honours, Nairobi, Kenya
Sheldon George Bowness, Alberton, P.E.I.
Melanie Colleen Clark, Kensington, P.E.I.
Michael Dale Manning, Falmouth, N.S.
Vijayakumari T.T. Pillay, Kentville, N.S.
John William Schenkels - High Honours, Red Bank, N.B.
Allan Howard Stewart - Honours, Truro, N.S.
Tammie Lee Perdrie Stewart, Albany, P.E.I.
Stephen Troy Webster, Kinkora, P.E.I.

Posthumous Degree

Rhonda Rae Rumbolt, Deer Lake, Nfld.

Engineering Degree - Diploma

Anthony Mansfield Christopher, Stellarton, N.S.
Peter John Llewellyn, Stellarton, N.S.
Sharon Marie MacLean - High Honours, River John, N.S.
Douglas Mabunde Obare - Honours, Kisumu, Kenya

Agricultural Engineering Degree - Diploma

Diirilwe Simon Matoto, Botswana
Andrew Wallace Myers, Hillsborough, N.B.
Brent Wilfrid Pearson, Glassville, N.B.
Benjamin Joseph Stokdijk, Truro, N.S.

Technician Diplomas

Agricultural Business

Cheryl Mary Hamilton, Carleton, N.S.
Paula Karoline Pedersen, New Denmark, N.B.
Krista Dawn Vroegh, East Noel, N.S.
Jan-Rouke Wessellius, River Glade, N.B.
Alison Susie White, Port Blandford, Nfld.
Shonda Lynn Wilson, Moncton, N.B.

Agricultural Engineering

Owen Derrick Cameron, Port Hood, N.S.
Andrew John Eveleigh, Sussex, N.B.
Joseph Russell MacHattie, Goshen, N.S.

Animal Science

Karen Anika Brenton, Stewiacke, N.S.
Trevor Lee Forbes, Truro, N.S.
Kriss Allan Hiltz, New Ross, N.S.
Heather Dawn Sheffield, Centreville, N.S.
Erik R. terBeek, Winsloe, P.E.I.

Farm Equipment

Udo Johannes F. Herygers, Lawrencetown, N.S.
Albertus Wessellius, River Glade, N.B.

Plant Science

Andrew Paul Boyer, Perth-Andover, N.B.
Susan Deborah Coy, Fredericton, N.B.
Janelle Shirley Drummond, Freetown, P.E.I.
Virginia Ann Fownes, Baddeck, N.S.

Matthew Gregory Horne, Halifax, N.S.
Andrew Joseph Mazzerolle, Fredericton, N.B.
Andrew Allan Newcombe, Port Williams, N.S.
Jason G. Scott, Fredericton, N.B.
Dwayne Edward Tatttrie, Tatamagouche, N.S.
Marla Dawn Wilkie, Alberton, P.E.I.

Diplomas of Technology

Agricultural Technology

Ebrima A.J. Cham - Honours, Banjul, The Gambia
Carmen Raymond Kelly, Kinkora, P.E.I.
Brian R. Newcombe - High Honours, Port Williams, N.S.
Bernhard Johan Vos, Hunter River, P.E.I.

Animal Health Technology

Kenda Lee Avery, Truro, N.S.
Sharon Ann Corcoran, Alberton, P.E.I.
Joanie Maxine MacArthur, Tyne Valley, P.E.I.
H. Darlene MacNeil - High Honours, Soldier Cove, N.S.
Kate V. Robertson - High Honours, Charlottetown, P.E.I.
Karen Ann Sheehan - Honours, Souris, P.E.I.
Angela Lynn Sinclair, Saint John, N.B.
Yvonne Ellen Van Hatten, Berwick, N.S.

Biology Laboratory Technology

Audrey Ann Carrigan, Canso, N.S.
Beverley Jean Hattie, Halifax, N.S.
Michelle Dawn Langille, Truro, N.S.

Chemistry Laboratory Technology

Mark Chalmers Hatcher, Truro, N.S.
Noah Okirima-Tiluk, Halifax, N.S.
Michelle Maureen Sparrow, Truro, N.S.

Farming Technology

Momodou Salieu Jallow - Honours, The Gambia

Landscape Horticulture Technology

Kirsten Sara Bartel, Tatamagouche, N.S.
Anne Elizabeth Brennan, New Harris, N.S.
Andrew George Chant, Truro, N.S.
Beth Arlene Herrington, Saint John, N.B.
Tracy Dawn Johnston - High Honours, Hampton, N.B.
Heather Elaine Kelly, Moncton, N.B.
Carolyn Gay Knowles, Bathurst, N.B.
Deanna C. MacLeod - High Honours, Porters Lake, N.S.
Darren Dewenten Marshall, Springhill, N.S.
Peter B. McCabe - High Honours, Charlottetown, P.E.I.
Timothy Donald McCurdy, Truro, N.S.
Sean Gordon McMurtry, Halifax, N.S.
S. Ann E. Morrison, Halifax, N.S.
Andrew Allan Newcombe, Port Williams, N.S.
Gordon Bryan Smith - High Honours, Halifax, N.S.
Eric M. Spears, Dartmouth, N.S.



Governor-General's Medals were won by Susan Lomond, Steady Brook, Nfld for the highest standing in the B.Sc.(Agr.) program and by Peter McCabe, Charlottetown, PEI, for the highest standing in Technical programs.

Distinction Awards

Silver

Ann Marie Gregory, Harricott, Nfld.
John William Schenkels, Red Bank, N.B.
Shonda Lynn Wilson, Moncton, N.B.

Noel Enman Memorial Award

Timothy Donald McCurdy, Truro, N.S.

Ian Neil Memorial Award

Deanna Catherine MacLeod, Porters Lake, N.S.



Phil Talbot, Manager of Physical Plant and Ken Marchant, Athletic Director were on hand to inspect the installation of the new lights on the Athletic Field.

Athletics in Review

LIGHTS TURNED ON!!

In 1986, the Athletic Department submitted a proposal to the administration, students and alumni to erect lights around the College playing field. This project became a reality on November 8, 1990 when the official cutting of the ribbon took place. The event was held at the opening ceremonies of the Canadian Colleges Athletic Association Men's Soccer Championships co-hosted by N.S.A.C. and N.S.T.C. Taking part in the official ribbon cutting ceremonies were N.S.A.C. Principal Les Haley, Alumni Vice-President Yvonne Thyssen-Post, Student Union President John Schenkels and N.S.A.C. Athletic Director Ken Marchant. Other participants in the opening ceremonies were N.S.T.C. Principal Jamie Muir, CCAA Soccer Convenor Barrie White, Executive Director CCAA Claire Gillespie and N.S.A.C. Athletics and President of the CCAA, Judy Smith, who officially declared the championships open.

N.S.A.C. Co-host Soccer Nationals

Following two years of planning, the Canadian Colleges Athletic Association men's soccer championships took place November 7-19 in the Truro-Bible Hill area. The event was co-hosted by the N.S.A.C. and N.S.T.C.

Six teams competed in the event. Conference champions represented British Columbia, Alberta, Ontario, Quebec and Nova Scotia. The sixth came from the host province. Nova Scotia Teachers College represented the conference and the N.S.A.C. participated in the tournament as the host. The other participating teams

included:

Quebec - Ahuntsic College, Montreal
Ontario - Sheridan College, Oakville
Alberta - Mount Royal College, Calgary
British Columbia - Capilano College,
North Vancouver

Results:

Gold	British Columbia
Silver	Ontario
Bronze	Quebec
4th	Alberta
5th	N.S.T.C.
6th	N.S.A.C.

The championships were an exciting event and a great experience for all participants. N.S.A.C. expresses its thanks and appreciation to the tournament committee for hosting a very successful national championship.

Men's Soccer

The 1990 season for the men's soccer team was certainly a memorable one. With talented rookies and a good mix of returning players, the guys had many exciting matches in league play and then at the national championships.

Finishing in the fourth place in the NSCAA, the Rams faced TUNS in the first round of the play-off tournament. Although holding the powerful Engineers early in the contest, the experience and finesse showed through and the Rams went down to defeat.

The other semi had pitted N.S.T.C. against Kings, and the Hawks came through after two overtime periods to beat the Blue Devils on penalty kicks. That win enabled both host colleges to participate in the

national event, N.S.T.C. as the provincial rep and N.S.A.C. as the host team.

Leading the Rams in league and play-off action were the Wesselius brothers, Ron and Albert, Ben Vos, Simon Matoto, Richard Steenbeck and Aaron Sweeney. The rookies were led by Mark Craig and local stand-out, Derek Canning (Upper Stewiacke). With a large number returning, indoor play in the second semester and good luck with next year's rookies, the Rams will be a team on the top for the next few years.

The great experience gained at the national championships will help reach that goal.

Women's Soccer

The women's team also had a good season. Blessed with an excellent group of rookies, the girls blended into a contender mid-way through the season. Defeating TUNS, NSTC and gaining a tie with MSVU, the girls were set for the play-offs. Meeting the Mount, the Rams started slowly but by the 30 minute mark of the second half, they were challenging for the lead. Time ran out as they surrendered to the Mystics 3-2.

Leading the AC contingent were returnees Heather Ayles, Heather Kelly, Backfield General Karen Buckley and Susan Simpson, and Norma Collett and Suzie Blatt up front. The cream of the rookie crop included locals Mary Rogers and Doreen Huybers (Brookfield), Cathy Boyd and fourth year student but first year player, Mary Ann Oulton.

The girls are playing indoors for the second semester and anxiously awaiting September '91.

Woodsmen

The 1990-91 year saw the N.S.A.C. woodsmen start the year with an almost completely new team with only five seasoned veterans returning. This year also marked a change in coaches with Rick Russell, who has been the coach for the past eleven years moving to the position of assistant coach. David Weatherhead has assumed the duties of head coach. With a change in coaches and an almost complete turnover in team members this could be called a rebuilding year for the N.S.A.C. Woodsmen Team.

Try-outs started early in September with 20 recruits but as usual, by the time try-outs ended this number was somewhat smaller. For the first time in recent years the woodsmen only fielded two teams (one men's and one women's) instead of three teams. This did not, however, prevent the team from working very respectable showings at each of the four competitions they attended.

Since Unity College did not host a meet this year, the first competition the teams attended was at U.N.B. in late October. Several events in this meet were won by the N.S.A.C. team. As always it was good to see lots of alumni woodsmen at the UNB competition, upholding the tradition and supporting the N.S.A.C. teams.

In mid-November the team took to the highway, driving to Lindsay, Ontario for the Sir Sanford Flemming College competition. Here the newer members of the team had a chance to experience the largest collegiate competition in Eastern Canada, with over 40 teams in attendance.

After Christmas a few other students tried out for the team to replace a vacancy

or two. In late January a flight to Montreal took the team to the Macdonald College competition where a few more trophies were collected and more experience gained.

The competition hosted by N.S.A.C. ended the woodsmen season in February of 1991. This year something new was tried at the A.C. competition and hopefully will continue in future years. This year the events were held indoors in the MacMillan Show Centre. This move inside away from the unpredictable February weather seemed to be well appreciated by competitors, spectators and officials alike.

As always the year was filled with fundraising activities. The men and women of the woodsmen team sacrificed a great many of their weekends and spare time to raise money to travel to the various competitions. In the fall of 1990 the team was busy removing diseased elm trees from the Salmon River Valley. This job along with annual steak n'stein and lots of other small jobs kept everyone quite busy.

This past spring also saw the formation of the Eastern Canadian Intercollegiate Timbersports Association (E.C.I.T.A.). This association with representatives from N.S.A.C., U.N.B., S.S.F.C., Macdonald College has set out this year to standardize some rules and generally promote the sport of woodsmen. This should help to improve the quality of the competitions for all involved and make some really positive changes in the sport of woodsmen in the future.

Generally speaking, a good year seems to have been had by all members of the woodsmen team. There is already talk of some of this year's rookies returning for the 1991-92 year.

A special thanks to all the alumni woodsmen who attended the competitions, helped out with the AC competition or supported the team in any way. It is always great to see former woodsmen staying interested in the sport and in the college team. Your support throughout the year is greatly appreciated.

Men's Volleyball

The N.S.A.C. Men's Volleyball Team competed in the N.S.C.A.A. with six other colleges. The season began in October with only three returning players from last year's squad. Only five other players tried out for the team and most of them had very little competitive volleyball experience.

The decision was made to work with the eight bodies and develop a foundation of talent which would be very competitive at the present time and give us some experienced players for future seasons. The transition from high school to college level volleyball was very challenging and sometimes difficult for some of our players, but as the season progressed things started to come together.

Most of the matches played were very exciting and close with the teams usually playing to 3-2 or 3-1 matches. The A.C. squad just missed the playoffs with a 6-18 record.

One of our veteran players, Dennis Doherty was chosen to the N.S.C.A.A. All-Conference team as well as being named Athlete of the Year at the N.S.A.C. Athletic Banquet.

Our rookies have shown vast improvement and are keen to continue next year. With the

addition of at least three confirmed, experienced, high school players attending A.C., next year, the coaching staff is encouraged and excited about the 1990-91 season.

Hockey

The 1990-91 version of the N.S.A.C. Hockey Rams began the season with over 30 players offering their services to the team. After the final cuts there were a total of nine returning players and nine rookies, making up the squad. As a small college hockey league does not exist in Nova Scotia the decision was made to play in the newly formed Labatt's District Intermediate Hockey League (seven team league).

The players toiled hard and were for the most part very dedicated but were unsuccessful in making the playoffs. They came 5th and only the top four teams made the playoffs.

Most Valuable Player - Danny Armstrong

Most Improved Player - Rodney Adam

Rookie of the Year - Jack Williams

With the possible return of 15 players from the 1990-91 edition of the Rams and a few good rookies the coaching staff and fans expect a far better showing for the 1991-92 hockey season.

Women's Basketball

Following a year in which N.S.A.C. did not participate in Nova Scotia Colleges Athletic Association, the Blue and Gold hit the court in 1990-91 with five rookies and lots of desire.

Led by veterans Stephanie Bishop and Ann Marie Gregory, the Rams had a very exciting

season with close league and exhibition contests. A good number of returnees should help to improve the won-loss column with the 1990-91 rookies keen to take the leadership role.

Team awards went to Ann Marie Gregory for most valuable, Sarah Noble for most improved and Tammy Kelly for Rookie of the Year. Stephanie Bishop was also recognized for her tremendous contribution over four years to varsity athletics and the over NSAC sport program.

League honors went to Anne Marie Gregory who was chosen All-Conference.

Men's Basketball

The Nova Scotia Colleges Athletic Association basketball league again this past year was very competitive. N.S.A.C.'s position in the league looked good from the beginning with all five returning starters. Also, Dean Schofield, a former student and player took over the team. he was ably assisted by Ben Robichaud and Jeff Kay, another former student and player for the Rams.

Steve Murley, Mark Hatcher, Kevin Anderson, Steve Chiasson and Wade Brockway remained as starters. The Rams were 2-2 at Christmas in league play and they were 1-1 in their pre-Christmas tournament. Dave Walker returned for his sophomore year to excite the fans with his dunking antics and Aaron Sweeney was back for this fourth year and filled in with his aggressive and defensive hustle.

Following the Christmas break the Rams ran into some problems. Steve Murley removed himself from the line-up because of academic problems and Wade Brockway broke a bone in his foot. As in previous

years, unfortunately, the bench wasn't deep and we suffered from the loss of two starters. Although Murley and Brockway returned to the line-up, the damage was done and the blue and gold ended up with a 2-18 record.

Season highlights included Dave Walker's performance off the bench in replacing Murley and Brockway inside when they were both out for a month. He received the most improved player award for his efforts. Brockway and Chiasson were second and fourth respectively in free throws from the foul line with percentages of 74.31 and 70.96. Although missing five games, Wade Brockway finished fourth in league scoring with an average of 17.2/game. Although the Rams didn't win many games, they were the second best defensive team in the league, second only to the league champions, Mount Saint Vincent. The season was capped with Brockway and Chiasson being selected to the N.S.C.A.A. All-Conference team.

Badminton

There was an upswing in the interest in badminton this year initially with a full team and spares. Two new members in the conference Universite Ste. Anne's and Saint Thomas University increased the schedule for the participants.

Pre-Christmas tournaments were held at both Ste. Anne's and Saint Thomas. This allowed Coach Gord Brewster to evaluate his charges and fit them into the different categories. Returning players included Suzie Blatt and Deanne Simms. Rookies joining the squad included Tim Fisher, Mary Rogers, Angus MacKinnon, Sandra Kennedy and Derrick Canning.

The highlight of the season was having Suzie Blatt represent the conference and NSAC at the nationals at Royal Military College in Kingston, Ontario.

With the return of all players and additional rookies, Coach Brewster and squad are looking to increase the overall fourth place standing next year.

Award Winners

Athlete of the Year

Ann Marie Gregory

Dennis Doherty

Contribution

Stephanie Bishop

Aaron Sweeney



The annual NSAC Athletic Awards Banquet was held April 5 in the Riverview Room of Jenkins Hall. Over 100 athletes were honoured and recognized for their participation and commitment to excel at the intramural and varsity levels. The highlight of the evening was the announcement and presentation of the athlete of the year awards and the contribution awards. Shown with Principal Haley are back (left), Aaron Sweeney, Yarmouth, N.S., contribution award, and Dennis Doherty, Sussex, N.B., male athlete of the year. In front (left) Stephanie Bishop, Lawrencetown, N.S., contribution award and Ann Marie Gregory, Harricott, Nfld, female athlete of the year.

ATHLETIC AWARDS

1st Year - Varsity Pins

Derrick Canning	Soccer, Badminton
Mark Craig	Soccer, Hockey
Darryl MacDougall	Soccer
Doug Koch	Soccer
Jim Porter	Soccer
Chawki Jreige	Soccer
Jason Bouma	Soccer, Hockey
Steve Phakisi	Soccer
Mike Owusu-Manu	Soccer
Beth Harrington	Soccer
Kathy Boyd	Soccer
Mary Ann Oulton	Soccer
Mary Rogers	Soccer, Badminton
Colleen Dunn	Soccer
Denise Cassidy	Soccer
Joanne Coleman	Soccer
Doreen Huybers	Soccer
Kim Walker	Woodsmen
Dawn Sheffield	Woodsmen
Shawna Hayward	Woodsmen
Sara MacQueen	Woodsmen
Holly Chetwynd	Woodsmen
Ewan Ferguson	Woodsmen
John Duynisveld	Woodsmen
John Linfield	Woodsmen
Myles Whitaker	Woodsmen
Jacques Williams	Hockey
Rodi Adams	Hockey
Randy Drake	Hockey
David Dickinson	Hockey
Wade McNally	Hockey
Steve Langley	Volleyball
Troy Lyons	Volleyball
Norman Sawler	Volleyball
John Greg Sullivan	Volleyball
Teresa Campbell	Basketball
Tracey Dooling	Basketball
Jessica Harvey	Basketball
Tammy Kelly	Basketball
Tanya Corbin	Basketball
Tim Fisher	Badminton
Sandra Kennedy	Badminton
Angus MacKinnon	Badminton
Mike Sichi	Badminton
Chris Dowe	Basketball
Tim Green	Basketball
Marc Kilfoil	Basketball
Craig McMaster	Basketball
Jeff Sutherland	Basketball



Ken Marchant, Athletic Director received the Certificate of Merit to the College from Clare Gillespie in recognition of the NSAC role in hosting the national soccer finals.

Letters - 2nd Year

Laura Morash	Soccer
Heather Kelly	Soccer
Heather Ayles	Soccer
Norma Collett	Soccer
Laura Rogers	Soccer, Basketball
Albert Wesselius	Soccer
Ron Wesselius	Soccer
Simon Matoto	Soccer
Richard Steenbeck	Soccer
Naris Morton	Soccer
Natalie Burns	Woodsmen
Tammy Brooks	Woodsmen
Eric terBeek	Woodsmen
Ken Pitre	Woodsmen
Danny Armstrong	Hockey
Tracey Gowan	Hockey
Jason Webster	Hockey
Mike Woolaver	Hockey
Scott Masters	Hockey
Matthew Horne	Badminton
Lori Ansems	Basketball
Susan DeBaie	Basketball
Jeffrey Sparks	Volleyball
Carl Bentley Webb	Volleyball
Kevin Anderson	Basketball
Steve Murley	Basketball
David Walker	Basketball
Wade Brockway	Basketball

3rd Year - Ram's Head

Lori Parsons	Soccer
Suzie Blatt	Soccer,
	Badminton
Susan Simpson	Soccer
Ben Vos	Soccer
Paul van de Wiel	Soccer
Mike Melanson	Woodsmen

Scott Moore	Woodsmen
David Muirhead	Woodsmen
Brian Newcombe	Hockey
Jeff Rowell	Hockey
Andrew Myers	Hockey,
	Volleyball

Deanne Simms	Badminton
Ann Marie Gregory	Basketball
Sarah Noble	Basketball
Steve Chiasson	Basketball
Mark Hatcher	Basketball

4th Year - Ram's Plaque

Karen Buckley, Antigonish, N.S.	Soccer
Aaron Sweeney, Yarmouth, N.S.	Soccer,
	Basketball
John Schenkels, Red Bank, N.B.	Soccer
Andrew Newcombe, Port Williams	

	Hockey
Stephanie Bishop, Lawrencetown, N.S.	Basketball
Dennis Doherty, Sussex, N.B.	Volleyball
Troy Webster, Kinkora, P.E.I.	Hockey

Individual Awards

Most Valuable Player Awards

WOMEN'S SOCCER

Karen Buckley, Antigonish, N.S.

MEN'S SOCCER

Ben Vos, Hunter River, P.E.I.

BELLE OF THE WOODS

Natalie Burns, Lower Freetown, P.E.I.

BULL OF THE WOODS

Mike Melanson, Moncton, N.B.

BADMINTON

Suzie Blatt, Kentville, N.S.

MEN'S HOCKEY

Danny Armstrong, Truro, N.S.

MEN'S VOLLEYBALL

Dennis Doherty, Sussex, N.B.

WOMEN'S BASKETBALL

Ann Marie Gregory, Harricott, Nfld.

MEN'S BASKETBALL

Steve Chiasson, Halifax, N.S.

Rookie of the Year

BADMINTON

Tim Fisher, Brookfield, N.S.

WOMEN'S SOCCER

Mary Ann Oulton, Windsor, N.S.

MEN'S SOCCER

Derrick Canning, Upper Stewiacke, N.S.

WOMEN'S WOODSMEN

Shawna Hayward, Woodstock, N.B.

MEN'S WOODSMEN

Ewan Ferguson, Wallace, N.S.

MEN'S VOLLEYBALL

Norman Sawler, Armdale, N.S.

WOMEN'S BASKETBALL

Tammy Kelly, St. Lawrence, Nfld.

MEN'S BASKETBALL

Marc Kilfoil, Bristol, N.B.

MEN'S HOCKEY

Jacques Williams, St. Antoine, Nfld.

Most Improved Player**WOMEN'S SOCCER**

Beth Harrington, Westville, N.S.

MEN'S SOCCER

Ron Wesselius, River Glade, N.B.

BADMINTON

Sandra Kennedy, Upper Stewiacke, N.S.

MEN'S VOLLEYBALL

Stephen Langley, Digby, N.S.

WOMEN'S BASKETBALL

Sarah Noble, Halifax, N.S.

MEN'S BASKETBALL

David Walker, Digby, N.S.

MEN'S HOCKEY

Roddie Adams, Chatham, N.B.

Nova Scotia Colleges Athletic Association - All Conference**WOMEN'S SOCCER**

Karen Buckley, Antigonish, N.S.

Heather Ayles, Moncton, N.B.

Tracey Borden, Truro, N.S.

MEN'S SOCCER

Simon Matoto, Via Lobatsi, Botswana

Richard Steenbeck, Kentville, N.S.

WOMEN'S BASKETBALL

Ann Marie Gregory, Harricott, Nfld.

MEN'S BASKETBALL

Wade Brockway, Dartmouth, N.S.

Steve Chiasson, Halifax, N.S.

MEN'S VOLLEYBALL

Dennis Doherty, Sussex, N.B.

Canadian Colleges Athletic Association

1990 National Soccer Championships

Tournament All-Star and Sportsmanship

Award

Simon Matoto, Via Lobatsi, Botswana

Pro Soccer

Professional soccer has come to Nova Scotia and to the N.S.A.C. campus. The N.S.A.C. hosted the newest entry of the Canadian Soccer League for a two-week training period, May 6-17, prior to their home opener, May 26, against the defending champion, Vancouver 86'ers.

Gordon Hill, a former striker with Manchester United, is the team coach. Players are from the Atlantic Region, draftees from Denmark, Russia and Czechoslovakia. During the two-week schedule the first week was mainly conditioning with the second week devoted to team play. Also, during the second week two exhibition matches were played. A number of the public were on hand in the evenings to witness the scrimmages. The team management and players expressed their pleasure with our facilities and are expected to return next season. Incidentally, they played Vancouver to a 0-0 draw in their opener before 2,000 fans.



Nova Scotia Clippers practicing at NSAC field.

MacRae Library Report

Library Committee Reorganization

The major reorganization of internal governance effected the Library Committee along with other faculty committees. Instead of a member for each department, the Library Committee now has a smaller elected membership with a policy mandate for the College as a whole. Membership on this Committee from June 1990 - May 1991 included: Prof. P. Sanger (Acting Archivist), Prof. B. Waddell (Reference Librarian), Prof. B. Sodhi (Chief Librarian), Prof. Carl Madigan, Prof. Bruce Gray, Prof. Steve Russell, Student - Helen Smith.

Separating the policy from the operational responsibilities is working very well. Not only does it lighten the onerous task of Library Committee membership, but it simplifies the not inconsiderable task of the Department liaison.

The nuts and bolts of equitable selection of materials and keeping a close watch on Departmental budget allocations is now handled by a Library liaison person in each academic department. The Library liaisons, however, do not meet together as a Committee. Library liaisons for June 1, 1990 - May 31, 1991 included: Prof. A. Lirette (succeeded by Prof. N. Firth) - Animal Science, Prof. N. Rifai - Agricultural Engineering, Prof. P. Sanger - Humanities and Acting Archivist, Prof. R. Martin - Plant Science, Prof. R. Robinson - Chemistry and Soil Science, Prof. B. Gray - Biology, Prof. C. Madigan - Math and Physics, Prof. S. Russell - Economics and Business Management. Their efforts in the area of collections development are very much appreciated.

The Library Committee considered and made recommendations to Faculty Council in two policy areas. First, the Library Committee recommended the adjusting of circulation policies governing the use of library materials by faculty, in order to make library materials more available to students during the academic year. Second, the Library Committee accepted and endorsed recommendations of its Library Automation Subcommittee. These recommendations suggest a strategy for Library Automation. Both policy recommendations were approved by Faculty Council.

Staffing

Library staffing was stable over the last year. The major change was the decision by Prof. B. Sodhi to step down as Chief Librarian. Prof. B. Waddell, Reference Librarian, was appointed Acting Chief Librarian with a recommendation to the Civil Service that the appointment be made permanent. Prof. Sodhi continues as Librarian in charge of public services. Other staff include Joanne Campbell, Interlibrary Loans Clerk; Sherree Miller, Secretary; Marilyn Foote, Acquisitions and Serials Clerk; Vaila Mowat, Cataloguer; Bonnie Belliveau, full-time casual in the Acquisitions Department. The smooth functioning of the Library is entirely due to the hard work of this small staff, who have in every instance taken a professional interest in their work and shown a commitment to library users.

Two others who have contributed in an important way are janitors Marlene MacCallum and Irene Armsworthy. Their efforts in the Library are much appreciated by both staff and users.

Two library staff represent the Library on College Committees. Marilyn Foote is the Library appointment to the Safety Committee. Joanne Campbell is the Library appointment to the Open House Committee. In the area of staff development, Sherree Miller and Joanne Campbell attended the Economics and Business courses Introduction to Computers and Word Perfect. Marilyn Foote attended a Henson College course on Lotus 1-2-3 Macros. Prof. Sodhi attended several Dalhousie lectures/seminars, Prof. Waddell attended the Canadian Library Association convention in Ottawa in June 1990 and the Atlantic Provinces Library Association Meeting in Cornerbrook in May 1991.

Activities: Trends in Public Services

Public services includes circulation, reference and interlibrary loans. Levels of service are relatively stable. There were one thousand more items circulated in 1990-91, which represents a 6% increase over the previous year. The purchase of a cash card system for the photocopy machines was appreciated by library staff for decreasing the amount of small change being handled, and by library users for its convenience and ease of use. In Reference Services, mediated online searches are roughly one-half the number of those prior to the acquisition of the CD-ROM databases for agriculture. Fewer workshops were held but for more people, representing a 22% increase in this area. Roughly half as many documents were catalogued, although total numbers of volumes added to the collection approximated earlier years. Prof. Waddell participated in an innovative demonstration - N.S.D.A.M. Research Project to evaluate Personal Bibliographic and search software with Dr. Don Crober and Dr. Alex Hawley

of the Animal Science Department.

Activities: Trends in Technical Services

Efforts over and above the normal workflow were done with an eye toward being prepared for a possible automation project. The Serials Department spent many hours adding ISSN (International Standard Serial Numbers) to the Dbase IV serials database, so that MARC record could be easily purchased, when required. In addition, an inventory was completed on the holdings in serials storage. A record was made of holdings and missing issues. The MacRae Library was the beneficiary of an unusual number of donations of serial backfiles this year.

The Cataloguing section did a major revision of the Canadian History section to update records and correct mistakes. In addition, audiovisual materials were catalogued for addition to the microfiche for the first time. Another effort involved the inventory of video resources on campus. The Video Directory database is maintained on the VAX. From this database a Directory was published in August 1990 and distributed to Departments and Branches on campus.

Activities: Agricola Collection

The AGRICOLA collection remains the major public relations vehicle of the MacRae Library. Main Lobby displays from this collection are recreated annually, and the AGRICOLA Collection becomes a major focus for the Annual Open House celebrations. This effort was coordinated by Prof. Peter Sanger with the very capable assistance of NSAC student Jean Withers.

A special feature of the Open House Exhibition was a display of *Dykeland*, a book of twenty-six poems which accompany twenty-six photographs of the Tantramar Marshes. The poems were by Douglas Lochhead and the photographs were by Thaddeus Holownia, both of Mount Allison University. The display included many of the original photographs.

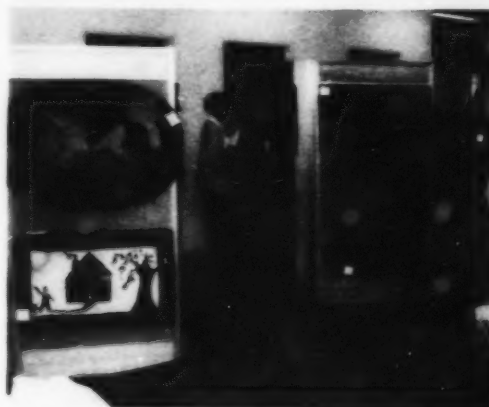
Also in conjunction with Open House was the 2nd Annual Breakfast in the Library for Alumni. This is a social event organized in cooperation with the Alumni Association to recognize alumni who have contributed to the Library and to the Alumni Association's Library Trust Fund. The Breakfast was enjoyed by 80 alumni and college faculty and staff. Prof. Peter Sanger presented an address reflecting on the theme of the exhibit and the relation of arts to the sciences. The Alumni Breakfast is perhaps the highlight of the year for MacRae Library staff who have this special opportunity to be host to many distinguished guests.

Library Statistics

APRIL 1, 1990-MARCH 31, 1991

CATEGORIES	1988-89	1989-90	1990-91
1. Books Acquired			
Books Purchased	871	884	971
Books Free	133	174	261
TOTAL	1,004	1,054	1,232
2. Current Periodicals	899	817	826
3. Binding Periodicals	765	783	691
Books	90	91	89
TOTAL	855	874	780
4. Cataloguing Books	1,435	1,182	1,205
Audiovisual	40		
TOTAL	1,435	1,182	1,245
5. Circulation of Books			
Circulation of Main Collection	10,247	11,100	11,221
Circulation of Textbook Reserve	1,525	1,712	1,695

Circulation of Faculty Reserve	1,591	2,073	2,789
Other	57		
TOTAL	13,363	14,796	15,762
6. Visitors to the Library	43,308	49,474	49,482
7. Interlibrary Loans			
a) Books Borrowed	398	332	291
b) Books Loaned	86	75	111
c) Photocopies Obtained	1,412	1,388	1,322
d) Photocopies Sent	197	288	321
TOTAL	2,093	2,083	2,045
8. Reference Department Activities			
a) Publications	6	11	7
b) Workshops		9(97 students)	
		15(119 students)	
		12(145 students)	
c) Tours		25(254 people)	
		42(358 people)	
		40(324 people)	
d) Reference Questions	153	197	261
e) Instruction Sessions	75	110	176
f) Referrals	8	6	11
g) Online Information Search Requests	47	37	23
h) Online Searches Prepared	76		
		68(106 databases)	
		36(39 databases)	
i) Documents Catalogued	439	142	92
j) Documents Added (vols.)	606	926	



A Rug Hooking Exhibit was featured in the Library during the Rug Hooking School held annually at the College.

College Farm

The N.S.A.C. operates a modern live-stock and crop farm in support of teaching and research. The College farm which consists of approximately 214 hectares (528 acres) of upland, interval, marshland and woodlands provides all the forage needs for the farm. A summary of the crops grown during 1990 are as follows:

Crop	Hectares
Research Plots	9
Annual Ryegrass	1
Legume Forage	61
Grass Forage	58
Corn Silage	4
Improved Pasture	27
Cultivated Pasture	28
Barley	13
Woodland	12
TOTAL	214

Thirty-five faculty research projects and eleven student research projects used the livestock and poultry facilities during the year. Livestock numbers remained fairly constant during the year with two exceptions. The Ayrshire herd which was housed at the College for many years was dispersed and a small herd of Pine Marten was added to the Fur Unit. Year end livestock and poultry numbers were as follows:

Dairy Cattle	88
Beef Cattle	104
Sheep	120
Swine	331
Poultry	2,908
Fox	103
Mink	84
Marten	13
Horses	12

Summary of Vocational and Continuing Education Programs

APRIL 1, 1990-MARCH 31, 1991

Vocational courses have been designed to assist men and women enter or progress in farm and farm related careers. Eighty-two (82) courses were held with 985 persons enrolled, totalling 10,808 student training days. In addition to these, nine (9) courses were cancelled due to the low number of applications received.

Employment and Immigration Canada sponsored 119 persons totalling 2,465 training days by paying the tuition and a training allowance. Details on enrollment can be seen in the following table.

Province # Students			% of Total Students		
'88/89	'89/90	'90/91	'88/89	'89/90	'90/91
Nova Scotia					
489	542	778	68.1	70.2	79.0
New Brunswick					
98	118	114	13.6	15.3	11.6
P.E.I.					
65	46	38	9.1	6.0	3.9
Newfoundland					
50	48	30	7.0	6.2	3.0
Other Residents					
16	18	256	2.2	2.3	2.5
Total Number Enrolled:					
718	772			985	
Total Number Graduated:					
684	744			968	
Total Number Sponsored by C.E.C.:					
236	207			119	
Total Student Training Days:					
8,804	7,974			10,808	

In conducting these courses, College staff was supplemented by organizational and lecture assistance, from many sources, with

the Nova Scotia Department of Agriculture and Marketing being the major contribution. Guest instructors for many topics are recruited from various federal research stations, other federal and provincial government services, business firms and private entrepreneurs.

Ten University of Guelph Independent Study courses were sold by the Vocational and Continuing Education office.

Vocational Courses:

Meat Cutting
Basic Farrier
Race Horse Shoeing
Draft Horse Shoeing
Basic Ironwork
Advanced Farrier
Farm Skills I
Farm Skills II
Potato Production Technology
Dairy Husbandry & 4-H Programming
Poultry Husbandry
Artificial Insemination
Basic Farm Welding
Arboriculture I
Equine Health
Co-op Atlantic Garden Centre Course
Introductory Floral Design
Principles & Practices of Plant Tissue Culture
Garden Centre Workshop
Queen Rearing for Beekeepers
Turfgrass Management for Recreational Fields
Organic Chemistry CS110
Microcomputer Literacy for Civil Servants
Microcomputer Literacy
Introduction to WordPerfect 5.1
WordPerfect 5.1 Advanced Level I
Field Crops Equipment
Horse Care Program
Animal Physiology & Reproduction
Meat Department Management for Store Managers
Dried Floral Design Workshop
Interior Landscaping
Constructive Internationalism
Bedding Plant Production Course
Weed and Pest Management for Landscapers
Extension Methods for Agricultural Professionals
Plant Tissue Laboratory Techniques
Animal Health Laboratory Technology
Artificial Insemination

Animal Production
Landscape Construction
Computer Literacy
Turfgrass Management
Poultry Production
Landscape Plants: Planting & Maintenance
High Density and Orchard Management
Basic Farm Welding
Swine Herd Operation
Oyster Mushroom Production
Principles & Methods of Weed Control
Dairy Herd Operation
Farrowing Room Management
Pond Culture of Trout

Continuing Education Courses:

Residential Landscape Maintenance
Introduction to Microcomputers Using MS-DOS
Computer Aided Drafting
Introduction to dBase IV
Introduction to WordPerfect 5.1
Basic Flower Arranging for the Home
Landscape Design and Construction
Advanced WordPerfect 5.1
Introduction to Computer Aided Drafting
Applying AutoCAD
MIG Welding
Computer Literacy
Beginner Beekeeping
Introduction to CAD



Mary MacDonald was one of the guest instructors for the Floral Design course.

International Programs

NSAC Centre for International Development

During the year the program of the College was lead by the Centre for International Development, which is associated with the Department of Economics and Business. The policy committee had the following membership during the year:

J. C. Tait (Chair)
J. M. Bowker
A. B. Gray
E. G. Maynard
D. C. Crober
T. H. Haliburton
A. D. Ells (Director)

In addition to hosting nearly thirty full time students from foreign countries in the regular College programs, some customized training was organized. Many of these students were associated with specific programs implemented on behalf of their financial sponsors. Following is a brief summary of each program conducted in the 1990-91 year.

1. Potato Production Technology

- Sponsored by Potatoes Canada with assistance from CIDA.

The twelfth course was completed, and consisted of ten students from eight countries. There was excellent cooperation with the potato industry and within the College. Two faculty members, Profs. Sam Asiedu and Steve Russell, participated in a follow-up mission to four countries in South America, financed by Agriculture Canada. Plans were finalized for the thirteenth course and ten students from nine countries were selected

and started in April, 1991. The Coordinating team was Profs. Tom Haliburton, Lauranne Sanderson, and Sam Asiedu.

2. Gambia College Development

Phase II - Sponsored by NSAC with a contribution grant from CIDA, ICDS Division.

The program for year two of this project was completed. Two staff were provided from NSAC to work at Gambia College: John Henry for ten months and Wayne Bhola for six months. Three staff members from Gambia College pursued upgrading studies at NSAC; one of whom graduated with honours in May of 1991. Supplies and equipment to strengthen the farm, post harvest handling of crops, and the teaching programs were arranged mostly from within The Gambia. Plans proceeded to present a two-week upgrading course for agricultural extension staff. This was presented in May by Professor John Tait and Instructor John Henry from NSAC working together with Gambia College staff. The NSAC project manager for the Gambia Program is Dale Ells.

3. Kenya Scholarship Program

- Sponsored by CIDA and administered by the High Commission of Kenya.

Five students continued studies in the B.Sc. (Agr.) program, and graduated on May 3, 1991.

4. Hunan Agricultural College

- Sponsored with CIDA funds through the CCCLP program of ACCC.

This new project continues to build on our earlier work with this College. A team of four administrators and Department Heads were hosted at a series of work planning meetings at NSAC in August.

The new contract was eventually signed and the first bit of work was started. The program includes some in-Canada training for HAC staff in graduate programs and some short term teaching and research assignments in China for NSAC staff. The NSAC program manager is Dr. Donald Crober.

5. Costa Rica Human Resource Development Program - Sponsored by CIDA and administered through a letter of agreement with WUSC.

Four staff involved in agricultural education at postsecondary institutions were accepted into customized upgrading studies. Three have completed their programs during this time period.

6. College of Agriculture in Jamaica - Sponsored by ACCC through the project development fund, which is financed by CIDA.

The third and last year of the program was implemented. The work included some COA staff training at NSAC and some short term technical assistance at COA by Canadians. This project was selected as a sample one for a CIDA evaluation. The NSAC program manager was Dr. Mike Bowker.

7. School of Farming Technology at UFPS, Colombia - Sponsored by NSAC with a contribution grant from the ICDS Division of CIDA.

The third and last year of development work was complemented. Some training at NSAC was completed and some in country assistance and training was conducted. Planning with UFPS staff lead to the development of a new proposal which was selected for funding for another three years. In the new program more emphasis will be placed

on the development of a demonstration farm in a low income community near the university. A system of mixed farming of a low input and sustainable nature will be developed as an integrated part of a broader program of community development. The NSAC program manager has been Abra Quintero.

8. SGIDP - Sponsored by ACCC with funds from the Youth Initiatives Program of CIDA.

Five NSAC students and recent graduates were accepted into a program called constructive internationalism. This included about twenty hours of training at NSAC and ten weeks of training and work experience at Gambia College. The content of the experience was designed to help the students gain a better understanding of intercultural communications, tropical agriculture, and approaches to international development. The participants were Andrew Willis, Paul Bosveld, Peter Boyd, Georgina MacKenzie and Micheal Sicheri. The NSAC coordinators of the program were Dale Ells and Wayne Bhola.

9. Public Awareness Program - Sponsored with a grant from the small project program of ACCC with funds from CIDA.

A workshop on Developing Partnerships was organized for farm and community organization representatives. This was held in March and included Mr. Michel Archambault, Director General of the ICDS Division of the Special Programs Branch of CIDA, as the theme speaker. Other awareness activities included the providing of speakers to local school and community groups, and some general displays and publicity initiatives. The NSAC program leader was Dr. Bruce Gray.

10. Other

Contact was maintained and strengthened with The University of Ankara in Turkey. A visiting research associate at NSAC, Susan Altinok, was extended for a second year, and some additional projects are being explored.

Some discussions continued with The Agricultural University of Nitra, in the Czech and Slovak Federal Republic. A general agreement of cooperation and friendship was developed and signed in May, when Dr. Haley visited Nitra with Dr. Rafi.

A project proposal to develop a linkage program with Saint Andrews' College in Ghana was developed and submitted to the Association of Canadian Community Colleges for funding through their PDF Program financed by CIDA.

The College is also exploring another Youth Initiatives program involving the N.S. Federation of Agriculture, the Jamaica Agricultural Society and the College of Agriculture in Jamaica.

The College's Centre for International Development continued to cooperate with other agencies as suitable opportunities presented themselves. Other agencies included: The Cody Institute, Dalhousie University Gambia Program, The Gambia Association of Nova Scotia, Potatoes Canada, and Crossroads International.



Among the participants in the International Workshop on March 7, were left to right, Don Gunn, Jr., representing the Senate Club of the N.S. Federation of Agriculture, Mr. Michel P. Archambault, Director General ICDS division of CIDA, Sandy Savage, Executive Director of the Women's Institute of Nova Scotia, and John Brennan, The Chief Executive Officer of Potatoes Canada.



Three Gambian students pose by the main entrance sign to the College (left to right) Amadou Chom, Momodou Jallow and Ebrima Chom.

College Services

NSAC DAY CARE

The NSAC Day Care operates from a house on College Road and provides services to parents of children between the ages of 18 months to 5 years. The parents may be employees of the N.S. Dept. of Agriculture & Marketing, employees of the Agricultural College, students of the College, or from outside the campus community.

The Day Care is licensed to provide services for a maximum of 33 full-time children per day. During the August 1, 1990 to July 30, 1991 time period the Day Care staff consisted of Catherine MacDonald, Manager; Imeleta Bowker, Lorinda Regan, Pat MacKay, and Patty Glennie. Gail Parker replaced Pat MacKay in November.

Highlights from the Day Care year included involvement with community events such as the Shine-A-Rama, and the I.W.K. Walk-A-Thon. Children at the Day Care went on day trips to the Bible Hill Fire Station, the N. S. Exhibition, the N.S.A.C. apple orchard and Farm. Preschool skating was also offered, on a regular basis during the winter months. Each year the children visit with Santa Claus and there is the annual concert and graduation ceremonies in Alumni Theatre.

The policy of the Day Care is established by a 12-member Board of Advisors which is responsible to the Principal. The executive members of this board, were:

Lauranne Sanderson, Chair
Pam McCormick, Vice-Chair
Vicki Olson, Secretary
Derrick Jamieson, Treasurer

The NSAC Day Care has been ably managed by Catherine MacDonald, since opening its doors in September, 1988.

Approximately 40-50 students have been registered at the Day Care, at any one time throughout the year. Of these children, typically 15-20 were full time, and the remaining 25-30 were part-time.

The attendance figures for the first four months of fiscal year (June 1, 1990 to May 30, 1991) were low, at approximately 50 - 65% of capacity. During the next 8 months, the attendance figures averaged just over 90%.

NSAC BOOKSTORE

The NSAC Bookstore is located on campus in Cox Institute of Agricultural Technology. During the 1990-91 year the manager was Wendy Joseph. The Bookstore Advisory Board, which is appointed by the Principal, gives direction to the program.

Textbook sales for use in the courses offered by the College make up the largest part of the business. Other sales include stationary supplies, lab books, safety supplies and souvenirs. Pricing policies are designed to provide the Bookstore service on a total cost recovery basis.

In the 1990-91 year the sales volume was summarized as follows.

Book Sales	\$184,493.
Supply Sales	16,339.
Souvenir, Misc. & Consignment Sales	5,555.
TOTAL	\$206,387.

Research Projects

Research projects at N.S.A.C. were financially supported from a variety of sources as listed in the following table. N.S.D.A.M. funded a total of 45 short-term projects conducted mainly during the summer of 1990. The two federal-provincial agreements in agriculture (ALFI and AFDA) accounted for approximately 63% of the total research funding to the campus. These agreements sponsor research contracts with specific researchers or groups. Contracts typically cover a three-year period.

Funding from the Natural Sciences and Engineering Research Council increased by 33% and supported the work of eight research faculty. The categories of outside research grants and contracts includes all funding received from sources in the private sector. These sources showed a decline of 20% over the previous year.

The Atlantic Poultry Research Institute increased its research activity considerably in 1990-91. Projects are sponsored at several locations in Nova Scotia and Prince Edward Island, as well as at N.S.A.C.

Overall, research expenditures in 1990-91 increased by 40% over the \$1.65 million in 1989-90.

Research Funding Sources

The entries in the table are in thousands of dollars and represent the funds from the various sources which were expended on research projects during 1990-91. The actual funding received could be slightly higher than these figures for some sources.

Source	Funds Expended
N.S. Department of Agriculture & Marketing	284.
Atlantic Livestock Feed Initiative (ALFI)	878.
Canada-Nova Scotia Agri-Food Development Agreement (AFDA)	575.
Natural Sciences and Engineering Research Council (NSERC)	170.
Outside Research Grants	163.
Outside Research Contracts	83.
Agricultural Research Institute (ARI)	8.
Atlantic Poultry Research Institute (APRI)	150.
Total All Sources	\$2,311,000

SOURCE FUNDS

1990 Research Project Reports (By Departments)

Project Leader & Project Title

Agricultural Engineering

D.A. Allen	Livestock and Poultry Barn Air Quality
P. Havard	Low Temperature Bath with Programmable Control
A. Madani	Irrigation Scheduling with Norchip Potatoes
A. Madani	Subsurface Drainage Survey
K.J. Sibley	Effect of Head Speed Ground Speed Ratio on Picking Effectiveness of a Lowbush Blueberry Harvester

Animal Science

D.M. Anderson	Effect of Water Quality on Nutrient Availability for Grower Finisher Pigs
D.M. Anderson	Herring By-product for Mink
L.M. Cock	Animal Evaluation of Forage Quality
A. Fradean	Absorption of Calcium from Alfalfa/Timothy Mixed Forage
A. Fradean	Development of a Novel Technique to Estimate Body Lipid Content

- A. Fredeen
Effect of Diet on Adipose Tissue Metabolism in Dairy Cows
- A. Fredeen
Effect of Enzymes on the Nutritional Value of Silage
- A. Fredeen
Investigation of the Efficacy of Parabiotics in the Prevention and Cure of Mastitis in Commercial Dairy Farms
- A. Hawley
Measurement and Reduction of Stress in Farmed Mink
- A. Lorette
Study of the Possibility of Introducing Edible Land Snail Production in Nova Scotia
- D.L. Patterson
Swine Conformation and Relation to Carcass Composition
- D.L. Patterson
Video Image Analysis in Assessing Pork Cut Composition
- T. Tennesen
Effects of Previous Grazing Experience on the Grazing Behaviour of Lambs
- T. Tennesen
Space use by Stall Housed Calves

Biology

- L.J. Eaton
Effects of Herbicides and Fertilizers on Blueberries
- A.B. Gray
Collar Rot of Apple Trees
- M.G. Sampson
Atrazine Movement in Soil
- M.G. Sampson
Herbicide-Pathogen Interactions in Quackgrass
- G.W. Stratton
Bacterial Bioassay for Mycotoxins in Grain

Chemistry-Soils

- G.R. Brewster
Iron Ochre Development in Sub-surface Tile Drains
- G.R. Brewster
Soil Erosion Determination using Fallout Cs-137
- N.L. Crowe
Color and Pigment Stability in Lowbush Blueberries
- N.L. Crowe
Enzyme and Flavor Changes in Modified Atmosphere Packaged (MAP) Lettuce and Rutabaga
- J. Hoyle
Pharomonal Enhancement of Blueberry Pollination
- J. Hoyle
A Rapid Analysis for Agricultural Ethylene

- A.R. Robinson
Identification of Meat and Mass Products by Isoelectric Focusing

Economics and Business

- K.G. Grant
Management of Maritime Wheat Price Risk
- K.G. Grant
Multiple Component Pricing of Milk

Plant Industry

- D.R. Mellish
Cereal Row Spacing and Seeding Rate

Plant Science

- S.K. Asiedu
Effect of Water Content of PNCM/Soil on Survival and Development of Bacterized (PGPR) Potato Plantlets
- S.K. Asiedu
Postharvest Horticulture - Precooling, Storage and Shelf Life of Fruits and Vegetables
- G.N. Atlin
Winter Wheat Cultivar Development
- J.S. Bubar
Cereal and Protein Crops
- J.S. Bubar
Forage Crops
- R.W. Daniels
Turfgrass Cultivar and Management Evaluations
- A. Farid
Using Digital Image Analysis to Measure Adipocyte Cellularity
- C.D. Goodwin
Wire Basket Injury to Roots of Transplanted Trees
- T.H. Halliburton
Vegetable Trials - Black Plastic Mulch and Row Two Field Covers on the Growth of Green Peppers
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American Ginseng Production in Nova Scotia
- H.-Y. Ju
Effects of Plant Growth Regulators on Fruit Set and Yield of Lowbush Blueberry
- L.R. Mapplebeck
Alternative Methods of Seedless Cucumber Production
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Lirette, A. 1991. MRI and Phosphorous Spectroscopy of Egg Embryo. International Workshop on MRI in Animal Research for Agriculture, Veterinary Medicine and Biological models. Ontario Veterinary College, Guelph, Ontario.

Lirette, A., E.G. Maynard, Joanna Fraser and J.P. MacIntyre. 1991. Comparisons between performance of steers fed with 50/50 legume/grass silages including White Clover, Red Clover, Alfalfa and Orchardgrass. Canadian Society of Animal Science Meeting, Fredericton, New Brunswick (Abstract). *Can. J. Anim. Sci.*

Lirette, A., R.A. Towner, R.J. Etches, S. Chu, A. Rath, J. Millam, B. Culter, R.W. Fairfull and H.R. Chambers. 1991. Spectroscopie R.M.N. localisée du phosphore-31, d'embryons de poulet en croissance (jours 2 à 19). Canadian Society of Animal Science Meeting, Fredericton, New Brunswick (abstract). *Can. J. Anim. Sci.*

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Sibley, K., Madani, A. and Canning, T. Preliminary Investigation of the Effects of Tile Drain Spacing on Soil Trafficability. Paper Presentation at the 11th Annual Meeting of ACAE, Feb. 19-21, 1991, Halifax, N.S.

Sibley, K. Effect of Head Speed/Ground Speed Ratio on Picking Effectiveness of Lowbush Blueberry Harvester. Paper Presentation at the 11th Annual Meeting of ACAE, Feb. 19-21, 1991. Halifax, N.S.

Ramos, A. and T. Tennessen. 1990. Effects of previous grazing experience on the grazing behavior of lambs. AIC Conference, Penticton, B.C.

Tennessen, T. and D. Whitney. 1990. Estimating animal space needs with video image analysis. AIC Conference, Penticton, B.C.

Church, J., T. Tennessen and B.A. Webster. 1991. Effects of environmental enrichment of SCWL pullets. AIC conference, Fredericton, N.B.

Wulfrat, H. and T. Tennessen. 1991. Effects of frequent contact with humans on behaviour and performance of laying hens. AIC Conference, Fredericton, N.B.

Other Publications

During the year the College issued:

1. The College Calendar
2. Your Future is Here
(a theme booklet on agricultural careers)
3. NSAC Post - 6 issues
(a newsletter on events and information about the College)
4. AC Bulletin - issued weekly during the academic year
(a newsletter for students with announcements and information about events on campus)
5. Principal's Report

Summer Conferences

A very brief summary of our 1991 Summer Conference program is as follows:

	1990	1991
Number of Groups	51	43
Number of Participants	5,503	3,300

The above represents a total of 20,079 bed nights for conference and occasional use.

In addition there were approximately 2,278 bed nights used for summer residents and students.

Approximate Total Bed Nights: 22,357

Several organizations that stayed at N.S.A.C. for the first time included:

APICS
Nova Scotia Clippers
Catholic Womens' League
Regional Senior Games
Crossroads Baptist Church
Clan MacQuarrie
Association for Research & Development
Department of Education (Community College Faculty)
Department of Education (Curriculum)
Nova Scotia Choral Federation
KAİROS '91 (United Church)

In addition to the conference program the following numbers of groups visited the campus for tours to specific departments, the farm complex or full campus tours.

	1990	1991
Number of Tours	91	90
Total Number of People	2,700	2,490

Conference revenue showed an increase over 1990.

Alumni Association

The NSAC Alumni Association continued to be a contact between all former students and the institution. The Association published two issues of "Alumni News" during the year, and distributed them to more than 4000 addresses. A new membership directory was completed and the annual alumni reunion in July was well attended. The Association assisted financially with the installation of the lights on the Athletic Field and presented entrance scholarships at Autumn Assembly.

1990-91 Nova Scotia Agricultural College Alumni Association Board of Directors

Retiring in 1994

Dr. James Wright
Box 668, Chester, N.S. B0J 1J0

Marion MacAulay
Atlantic Veterinary College
Charlottetown, P.E.I. C1A 4P3

Kevin Aucoin
Box 89, R.R. #1, Portugal Cove, Nfld. A0A 3K0

Yvonne Thyssen-Post
Extension Services, N.S.D.A.M.,
Box 550, Truro, N.S. B2N 5E3

Retiring in 1993

Frank Lawson
P.E.I. Dept. of Agriculture
Box 1600, Charlottetown, P.E.I. C1A 7N3

George LaBelle
Box 5, Cocagne, N.B. E0A 1K0

Jim Baillie
Box 189, Shubenacadie, N.S. B0N 2H0

Victor Saxon
Registrar, N.S.A.C.
Box 550, Truro, N.S. B2N 5E3

Retiring in 1992

Arlington Mair
613 Yale Ave., Riverview, N.B. E1B 2C1

Bill MacLeod
4-H Office, N.S.D.A.M.
Box 550, Truro, N.S. B2N 5E3

Fred Walsh
N.S.D.A.M., Agricultural Centre
Kentville, N.S. B4N 1J5

Stan Moore
26 Oak Dr., Sherwood, P.E.I. C1A 6P5

President

Campbell Gunn
Agriculture Canada
Box 698, Truro, N.S. B2N 5E5

Past-President

John Eaton
91 Parkwood Dr., Moncton, N.B. E1E 3X0

Vice-President

Yvonne Thyssen-Post
Extension Services, N.S.D.A.M.
Box 550, Truro, N.S. B2N 5E3

Treasurer

Steve Russell
Ec. & Bus. Dept., N.S.A.C.
Box 550, Truro, N.S. B2N 5E3

Secretary

Darlene Stevenson
Agriculture Canada
Box 698, Truro, N.S. B2N 5E5



College Farmstead in the summer of 1990.

Financial Summaries

SUMMARY OF OPERATING EXPENSES AND REVENUES

April 1, 1990 to March 31, 1991

	Expenditures	Revenue	Net Expenditure
1. Administration	1,163.7	100.5	1,063.2
2. Agricultural Engineering	756.6	12.2	744.3
3. Animal Science	1,210.8	139.1	1,071.6
4. Biology	760.6	10.2	750.3
5. Chemistry & Soil Science	930.2	17.7	912.6
6. Economics & Business	488.6	16.2	472.4
7. Humanities	113.4	0.0	113.4
8. Math & Physics	481.6	30.0	451.6
9. Plant Science	1,348.2	86.5	1,261.6
10. Library	458.3	3.3	455.0
11. Vocational & Continuing Education	399.2	305.2	94.0
12. Physical Plant	2,628.7	848.3	1,780.4
13. Farm	1,391.0	452.3	938.7
14. Ancillary Services	1,686.4	1,633.2	53.2
Totals	13,817.3	3,654.8	10,162.4

FUNDING SOURCES FROM APRIL 1, 1990 TO MARCH 31, 1991

Student Tuitions	608.0
MPHEC	3,857.6
Other Atlantic Provinces	615.6
NS Dept. of Agriculture & Marketing	5,081.2
Totals	10,162.4

Capital Improvements

Additional renovations were completed in the animal clinic area of the Boulden Building. This provides x-ray and darkroom space as well as a lab and two preparation areas for small animal surgery.

Property containing two houses was purchased from Mrs. Ralph Barrett at a College Road location next to Alumni Gardens. As part of the agreement, Mrs. Barrett will continue to live in one of the houses. This piece of land was the only land between the Daycare house and Vimy Road that had not been consolidated into the campus.

Planning for an updated farmstead reached an important stage. The Department of Government Services agreed to initiate a predesign study for a new Dairy Barn based on the roles and goals and the program detail that had been identified by the Farmstead Planning Committee. The design firm of Fowler-Dewolfe completed the study and presented concepts for the proposed structure by midsummer.

Capital Funds

Spent on Furnishings, Equipment and Space Alterations \$ 778,271.

Other Capital Expenditures were made by The N. S. Department of Government Services.

Memberships

The Nova Scotia Agricultural College continues to implement its work in association with other institutions and agencies with similar objectives.

Institutional Memberships in National Organizations:

- The Association of Universities and Colleges of Canada
- The Association of Canadian Community Colleges
- The Confederation of Faculties of Agriculture and Veterinary Medicine
- The Canadian Association of Diploma in Agriculture Programs
- The Canadian Bureau of International Education

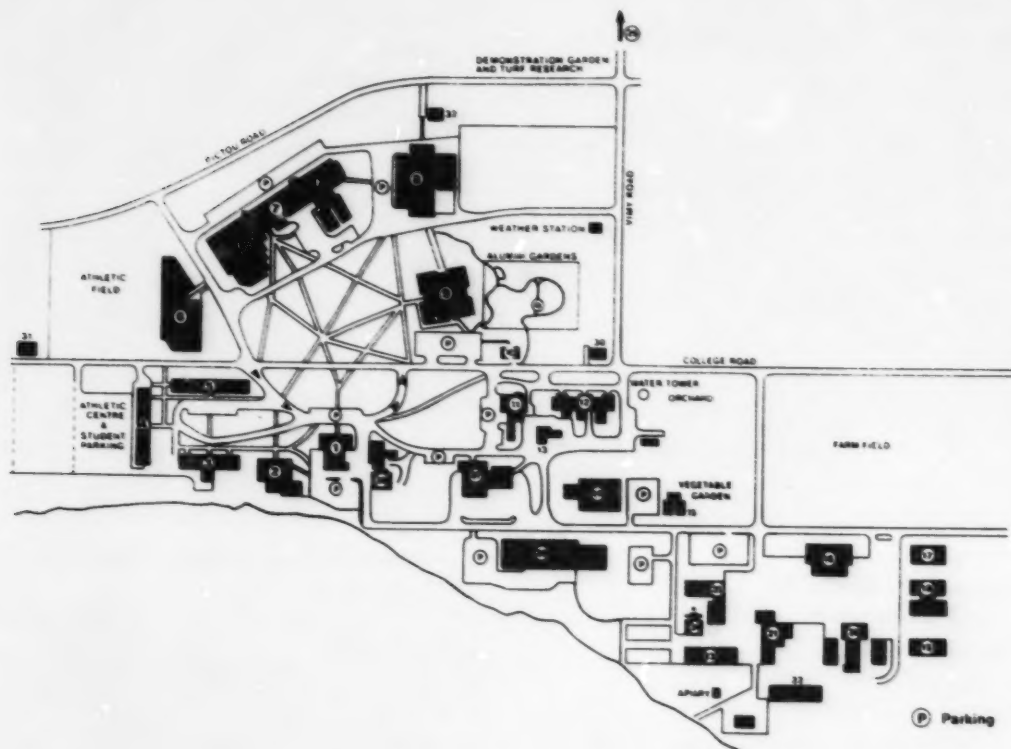
Institutional Memberships in Atlantic Organizations:

- The Atlantic Provinces Agricultural Services Coordinating Committee
- The Association of Atlantic Universities
- The Atlantic Institute for Bio-Technology
- The Atlantic Poultry Research Institute
- The Atlantic Colleges' Management Development Institute

Membership in Specialized Initiatives in Nova Scotia:

- The Nova Scotia Soils Institute
- The Nova Scotia Blueberry Institute
- The Nova Scotia Fur Institute
- The Nova Scotia Crop Development Institute

Map of Campus



- | | |
|--|--|
| 1. Cumming Hall | 17. Machinery Shed |
| 2. Jenkins Hall | 18. Swine Barn |
| 3. Trueman House | 19. Sheep Barn |
| 4. Chapman House | 20. Beef Barn |
| 5. Fraser House | 21. Dairy Barn |
| 6. Athletic Centre | 22. Fur Unit |
| 7. Cox Institute | 23. Poultry II |
| 8. Banting Building | 24. Feed Processing Plant |
| 9. Library | 25. Poultry I |
| 10. DeWolfe House (Marketing & Economics Services) | 26. Animal Science Building |
| 11. Collins Horticulture Building | 27. Extension Engineering Building & Central Heating Plant |
| 12. Harlow Institute | 28. Dairy Building |
| 13. Horticulture & Biology Greenhouse | 29. To MacMillan Show Centre (Exhibition Grounds) |
| 14. Hancock Veterinary Building | 30. International House |
| 15. Horticulture & Biology Greenhouse | 31. Day-Care Services |
| 16. Boulden Building | 32. Agricultural Engineering Annex |

Campus Directory

ADMINISTRATION

NOVA SCOTIA AGRICULTURAL COLLEGE

Principal

L.E. Haley

Vice-Principal

I.M. Fraser

Dean, Vocational and Technical Education

A.D. Ells

Associate Dean of Research

G.J. Pearson

Registrar

V.L. Saxon

Dean of Student Services

R.M. Stevens

NSAC DEPARTMENT HEADS

Agricultural Engineering

J.D. Cunningham

Animal Science

D.C. Crober

Biology

L.J. Eaton

Chemistry

A.R. Robinson

Economics & Business Management

J.C. Tait

Humanities

P.M. Sanger

Mathematics & Physics

C.T. Madigan

Plant Science

C.D. Caldwell

CONTACTS

Admission & Registration

Registrar, Cox Institute

Residence & Dining Accommodations

Dean of Students Services,

Cox Institute

Campus Visits

Conference Co-ordinator,

Fraser House

MAILING ADDRESS

Nova Scotia Agricultural College

P.O. Box 550, Truro

Nova Scotia, Canada

B2N 5E3

Administration Telephone Number

(902) 893-6600

Administration Fax Number

(902) 897-9399

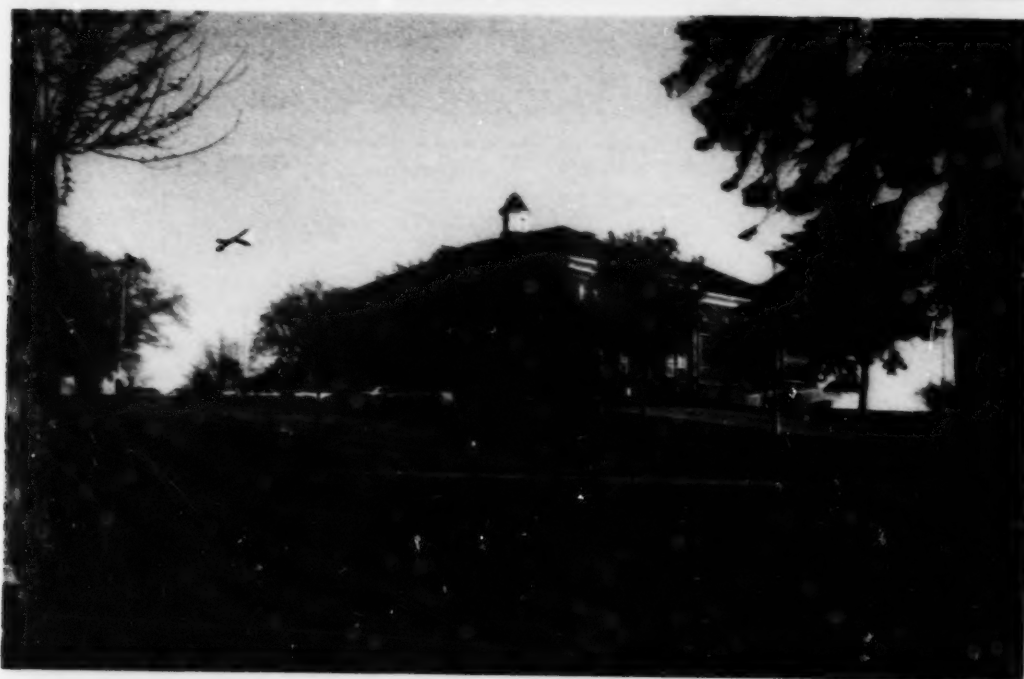
Telex Number

019-34532

Student Services & Registrar

Telephone (902) 893-NSAC

Fax (902) 895-4547



Cumming Hall (constructed in 1904)



The floral garden in the summer of 1990 was a salute to International Literacy Year.